

# Monthly Report

July 2010

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# Market Performance Highlights for July 2010

- LBMP for July is \$76.85/MWh, up from \$59.09/MWh in June 2010.
  - Average monthly cost is \$78.45/MWh, up from \$64.46/MWh in June 2010.
  - Day Ahead and Real Time LBMPs have increased from June 2010.
- Average daily sendout is 558GWh/day in July, up from 491GWh/day in June 2010 and higher than the July 2009 sendout of 469GWh/day.

# • Fuel prices this month are mixed compared to last month.

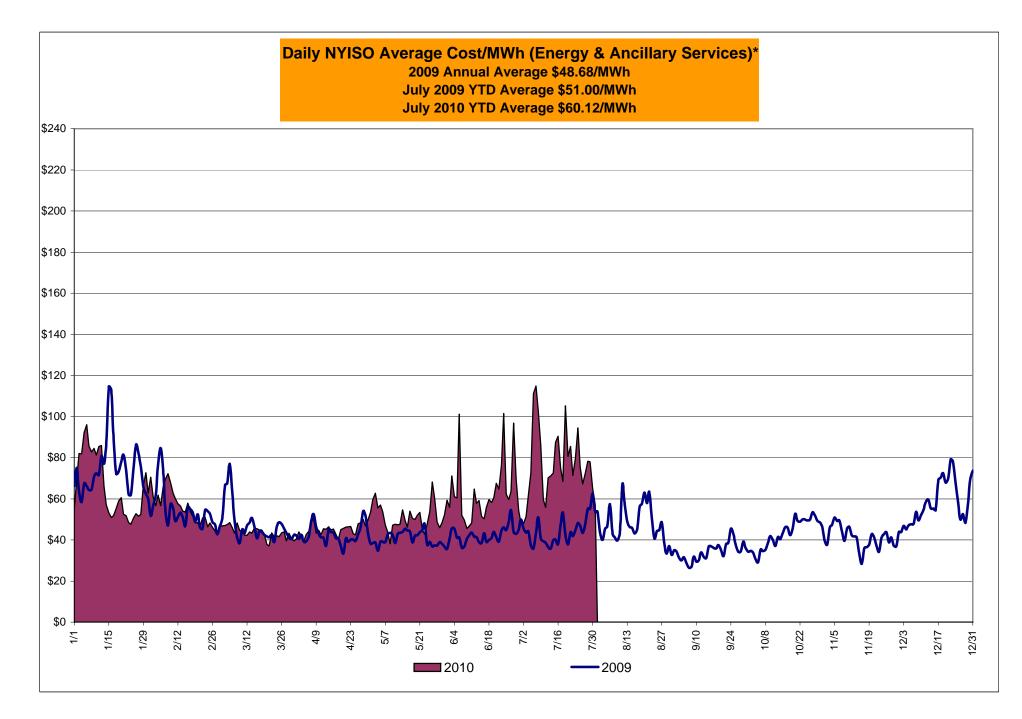
- Kerosene is \$15.39/MMBtu, down from \$15.76/MMBtu in June.
- No. 2 Fuel Oil is \$14.03/MMBtu, down from \$14.50/MMBtu in June.
- No. 6 Fuel Oil is \$11.49/MMBtu, up from \$11.21/MMBtu in June.
- Natural Gas is \$5.07MMBtu, down from \$5.18/MMBtu in June.

# • Uplift per MWh is down from the previous month.

- Uplift (not including NYISO cost of operations) is \$0.97/MWh, down from \$2.31/MWh in June:
  - The TSA share is \$0.29/MWh
  - The Local Reliability Share is \$0.60/MWh
  - The Other Share is \$0.08/MWh
- Total uplift (Schedule 1 components including NYISO Cost of Operations) of \$29.4 million in July is lower compared to \$44.6 million in June.

Market Monitoring

8/9/2010



\* Excludes ICAP payments.

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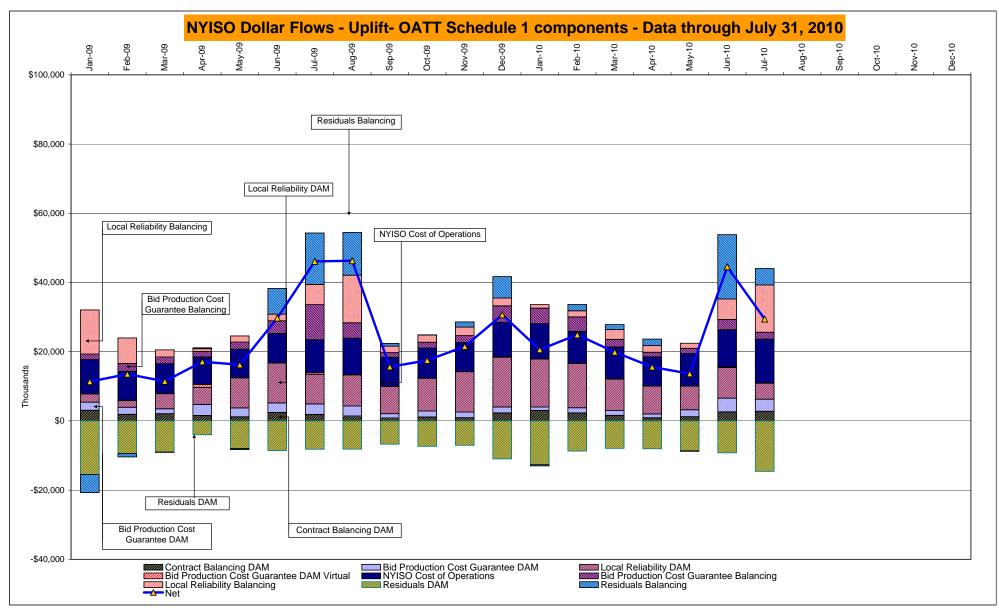
2010	January	February	March	April	May	June	July	August	September	October	November	December
LBMP	63.90	52.44	40.19	41.56	48.82	59.09	74.85					
NTAC	0.70	0.77	0.88	1.19	0.95	1.46	0.95					
Reserve	0.19	0.17	0.26	0.29	0.32	0.14	0.21					
Regulation	0.44	0.37	0.40	0.32	0.30	0.31	0.32					
NYISO Cost of Operations	0.71	0.71	0.71	0.71	0.71	0.71	0.71					
Uplift	0.73	1.22	0.82	0.61	0.32	2.31	0.97					
Uplift: TSA Share	-	-	-	-	0.03	0.69	0.29					
Uplift: Local Reliability Share	0.53	0.72	0.49	0.39	0.19	0.76	0.60					
Uplift: Other Share	0.20	0.50	0.33	0.22	0.10	0.86	0.08					
Voltage Support and Black Start	0.44	0.44	0.44	0.44	0.44	0.44	0.44					
Avg Monthly Cost	67.11	56.13	43.71	45.13	51.87	64.46	78.45					
Avg YTD Cost	67.11	62.05	56.30	53.63	53.28	55.47	60.12					
2009	<u>January</u>	February	March	<u>April</u>	May	June	<u>July</u>	August	<u>September</u>	<u>October</u>	November	December
2009 LBMP	<u>January</u> 73.30	<u>February</u> 52.75	<u>March</u> 45.64	<u>April</u> 39.66	<u>May</u> 37.83	<u>June</u> 39.01	<u>July</u> 40.68	<u>August</u> 43.65	<u>September</u> 31.74	<u>October</u> 39.74	<u>November</u> 37.87	<u>December</u> 55.64
								-				
LBMP	73.30	52.75	45.64	39.66	37.83	39.01	40.68	43.65	31.74	39.74	37.87	55.64
LBMP NTAC	73.30 0.45	52.75 0.53	45.64 0.36	39.66 0.87	37.83 0.58	39.01 0.77	40.68 0.63	43.65 0.61	31.74 0.62	39.74 0.65	37.87 0.81	55.64 0.76
LBMP NTAC Reserve	73.30 0.45 0.26	52.75 0.53 0.35	45.64 0.36 0.31 0.55 0.65	39.66 0.87 0.24	37.83 0.58 0.30	39.01 0.77 0.23	40.68 0.63 0.24	43.65 0.61 0.16	31.74 0.62 0.24	39.74 0.65 0.26	37.87 0.81 0.20	55.64 0.76 0.21
LBMP NTAC Reserve Regulation	73.30 0.45 0.26 0.45	52.75 0.53 0.35 0.48	45.64 0.36 0.31 0.55	39.66 0.87 0.24 0.37	37.83 0.58 0.30 0.31	39.01 0.77 0.23 0.37	40.68 0.63 0.24 0.29	43.65 0.61 0.16 0.24	31.74 0.62 0.24 0.32	39.74 0.65 0.26 0.44	37.87 0.81 0.20 0.38	55.64 0.76 0.21 0.42
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: TSA Share	73.30 0.45 0.26 0.45 0.65	52.75 0.53 0.35 0.48 0.65	45.64 0.36 0.31 0.55 0.65	39.66 0.87 0.24 0.37 0.65	37.83 0.58 0.30 0.31 0.65	39.01 0.77 0.23 0.37 0.65 1.71 0.45	40.68 0.63 0.24 0.29 0.65	43.65 0.61 0.24 0.65 2.74 0.47	31.74 0.62 0.24 0.32 0.65	39.74 0.65 0.26 0.44 0.69	37.87 0.81 0.20 0.38 0.69	55.64 0.76 0.21 0.42 0.69
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: TSA Share Uplift: Local Reliability Share	73.30 0.45 0.26 0.45 0.65 0.11	52.75 0.53 0.35 0.48 0.65 0.41	45.64 0.36 0.31 0.55 0.65 0.21	39.66 0.87 0.24 0.37 0.65 0.67	37.83 0.58 0.30 0.31 0.65 0.63 0.02 0.41	39.01 0.77 0.23 0.37 0.65 1.71	40.68 0.63 0.24 0.29 0.65 2.66 0.75 0.83	43.65 0.61 0.24 0.65 2.74 0.47 1.35	31.74 0.62 0.24 0.32 0.65 0.62 - 0.39	39.74 0.65 0.26 0.44 0.69 0.70	37.87 0.81 0.20 0.38 0.69 1.07 - 0.70	55.64 0.76 0.21 0.42 0.69 1.43
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: TSA Share Uplift: Local Reliability Share Uplift: Other Share	73.30 0.45 0.26 0.45 0.65 0.11 - 0.15 (0.04)	52.75 0.53 0.35 0.48 0.65 0.41 - 0.28 0.13	45.64 0.36 0.31 0.55 0.65 0.21 0.00 0.12 0.09	39.66 0.87 0.24 0.37 0.65 0.67 0.02 0.22 0.43	37.83 0.58 0.30 0.31 0.65 0.63 0.02 0.41 0.20	39.01 0.77 0.23 0.37 0.65 1.71 0.45 0.78 0.48	40.68 0.63 0.24 0.29 0.65 2.66 0.75 0.83 1.08	43.65 0.61 0.24 0.65 2.74 0.47 1.35 0.92	31.74 0.62 0.24 0.32 0.65 0.62 - 0.39 0.23	39.74 0.65 0.26 0.44 0.69 0.70 - 0.46 0.24	37.87 0.81 0.20 0.38 0.69 1.07 - 0.70 0.37	55.64 0.76 0.21 0.42 0.69 1.43 - 0.78 0.65
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: TSA Share Uplift: Local Reliability Share	73.30 0.45 0.26 0.45 0.65 0.11	52.75 0.53 0.35 0.48 0.65 0.41	45.64 0.36 0.31 0.55 0.65 0.21 0.00 0.12	39.66 0.87 0.24 0.37 0.65 0.67 0.02 0.22	37.83 0.58 0.30 0.31 0.65 0.63 0.02 0.41	39.01 0.77 0.23 0.37 0.65 1.71 0.45 0.78	40.68 0.63 0.24 0.29 0.65 2.66 0.75 0.83	43.65 0.61 0.24 0.65 2.74 0.47 1.35	31.74 0.62 0.24 0.32 0.65 0.62 - 0.39	39.74 0.65 0.26 0.44 0.69 0.70	37.87 0.81 0.20 0.38 0.69 1.07 - 0.70	55.64 0.76 0.21 0.42 0.69 1.43
LBMP NTAC Reserve Regulation NYISO Cost of Operations Uplift Uplift: TSA Share Uplift: Local Reliability Share Uplift: Other Share	73.30 0.45 0.26 0.45 0.65 0.11 - 0.15 (0.04)	52.75 0.53 0.35 0.48 0.65 0.41 - 0.28 0.13	45.64 0.36 0.31 0.55 0.65 0.21 0.00 0.12 0.09	39.66 0.87 0.24 0.37 0.65 0.67 0.02 0.22 0.43	37.83 0.58 0.30 0.31 0.65 0.63 0.02 0.41 0.20	39.01 0.77 0.23 0.37 0.65 1.71 0.45 0.78 0.48	40.68 0.63 0.24 0.29 0.65 2.66 0.75 0.83 1.08	43.65 0.61 0.24 0.65 2.74 0.47 1.35 0.92	31.74 0.62 0.24 0.32 0.65 0.62 - 0.39 0.23	39.74 0.65 0.26 0.44 0.69 0.70 - 0.46 0.24	37.87 0.81 0.20 0.38 0.69 1.07 - 0.70 0.37	55.64 0.76 0.21 0.42 0.69 1.43 - 0.78 0.65

<u>NYISO Average Cost/MWh (Energy and Ancillary Services)</u>\* <u>from the LBMP Customer point of view</u>

\* Excludes ICAP payments.

These numbers reflect the true-ups thru May 2010.

Market Mitigation and Analysis Prepared: 8/5/2010 12:54 PM



DAM Contract Balancing amounts are for payments made to generating units to make them whole for being dispatched below their Day-Ahead schedule, as a result of out-of-merit dispatches. DAM Bid Production Cost Guarantees for Virtual Transactions are included in the chart and are shown from the inception of Virtual Transactions. These values are small and cannot be identified on the chart.

DAM BIG Froduction Cost Guarantees for virtual transactions are included in the chart and are shown from the inception of virtual transactions. These values are small and cannot be identified on the chart. DAM residuals consist of both energy and loss revenue collections and payments. By design, there is a net over collection of revenues due to the difference between the marginal losses paid to generation and the average losses charged to loads.

#### **NYISO Markets Transactions**

				IN	150 Mar	tets mans	sactions					
<u>2010</u>	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	September	October	November	December
Day Ahead Market MWh	14,034,781	12,593,305	12,922,930	11,769,468	12,795,110	14,263,543	16,608,041					
DAM LSE Internal LBMP Energy Sales	49%	46%	47%	53%	47%	49%	53%					
DAM External TC LBMP Energy Sales	2%	3%	1%	1%	1%	2%	3%					
DAM Bilateral - Internal Bilaterals	41%	43%	43%	39%	44%	42%	38%					
DAM Bilateral - Importl/Non-LBMP Market Bilaterals	6%	5%	5%	4%	5%	5%	4%					
DAM Bilateral - Export/Non-LBMP Market Bilaterals	1%	1%	2%	2%	2%	1%	1%					
DAM Bilateral - Wheel Through Bilaterals	2%	1%	1%	1%	1%	1%	1%					
Balancing Energy Market MWh	377,242	280,238	21,148	637	341,742	735,521	1,162,690					
Balancing Energy LSE Internal LBMP Energy Sales	40%	53%	-427%	-14017%	61%	87%	94%					
Balancing Energy External TC LBMP Energy Sales	56%	50%	593%	17099%	44%	11%	9%					
Balancing Energy Bilateral - Internal Bilaterals	10%	7%	191%	6847%	7%	10%	3%					
Balancing Energy Bilateral - Importl/Non-LBMP Market Bilaterals	0%	0%	2%	35%	1%	0%	0%					
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	7%	8%	117%	3606%	6%	3%	1%					
Balancing Energy Bilateral - Wheel Through Bilaterals	-12%	-18%	-376%	-13470%	-19%	-10%	-7%					
Transactions Summary												
LBMP	52%	50%	49%	54%	50%	54%	59%					
Internal Bilaterals	40%	43%	43%	39%	43%	40%	36%					
Import Bilaterals	5%	5%	5%	4%	5%	5%	4%					
Export Bilaterals	2%	2%	2%	2%	2%	1%	1%					
Wheels Through	1%	1%	1%	1%	0%	0%	0%					
Market Share of Total Load												
Day Ahead Market	97.4%	97.8%	99.8%	100.0%	97.4%	95.1%	93.5%					
Balancing Energy +	2.6%	2.2%	0.2%	0.0%	2.6%	4.9%	6.5%					
Total MWH	14,412,023	12,873,543	12,944,078	11,770,104	13,136,851	14,999,065	17,770,731					
Average Daily Energy Sendout/Month GWh	451	444	410	387	415	491	558					
2009	January	February	March	April	May	June	July	August	September	October	November	December
Day Ahead Market MWh	14,570,391	12,511,009	13,160,913	12,121,505	12,324,218	13,159,069	14,549,784	15,547,976		12,385,591	12,446,286	
DAM LSE Internal LBMP Energy Sales	45%	44%	46%	47%	43%	48%	51%	53%	53%	50%	47%	46%
DAM External TC LBMP Energy Sales	4%	2%	1%	1%	2%	2%	1%	1%	1%	1%	2%	3%
DAM Bilateral - Internal Bilaterals	45%	47%	45%	45%	48%	43%	42%	40%	39%	43%	44%	43%
DAM Bilateral - Importi/Non-LBMP Market Bilaterals	4%	5%	5%	5%	5%	5%	5%	5%	5%	4%	5%	5%
DAM Bilateral - Export/Non-LBMP Market Bilaterals	2%	2%	2%	2%	2%	1%	1%	1%	1%	2%	2%	1%
DAM Bilateral - Wheel Through Bilaterals	0%	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%
Balancing Energy Market MWh	699,813	282,553	70,320	152,623	272,508	-115,653	131,797	560,968	170,324	238,124	-165,015	431,981
Balancing Energy LSE Internal LBMP Energy Sales	56%	39%	-111%	-31%	272,300	-247%	-99%	65%	7%	54%	-124%	49%
Balancing Energy External TC LBMP Energy Sales	38%	46%	150%	118%	74%	141%	140%	29%	76%	53%	55%	46%
Balancing Energy Bilateral - Internal Bilaterals	8%	19%	68%	20%	10%	23%	53%	6%	18%	0%	6%	-10 <i>%</i>
Balancing Energy Bilateral - Importi/Non-LBMP Market Bilaterals	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%	0%	0%
Balancing Energy Bilateral - Export/Non-LBMP Market Bilaterals	1%	5%	16%	8%	4%	8%	12%	2%	8%	9%	14%	8%
Balancing Energy Bilateral - Wheel Through Bilaterals	-2%	-10%	-24%	-15%	-15%	-27%	-6%	-2%	-8%	-16%	-50%	-10%
Transactions Summary	270	1070	2470	1070	1070	2170	070	270	070	1070	5070	1070
LBMP	51%	47%	48%	48%	46%	49%	51%	55%	55%	52%	48%	50%
Internal Bilaterals	43%	47 %	40%	40%	40%	49%	42%	38%	38%	42%	40 %	30 % 42%
Internal Dilaterals		4078		44 % 5%	47 % 5%	44 % 5%	42 % 5%	5%	5%	42 %	43 % 5%	42 % 5%
Import Bilatorals		F0/	E0/.				J /0	J /0	J /0			J /0
Import Bilaterals	4%	5% 2%	5%				10/	10/				20/
Export Bilaterals	4% 2%	2%	2%	2%	2%	1%	1% 1%	1% 1%	1%	2%	2%	2% 1%
Export Bilaterals Wheels Through	4%						1% 1%	1% 1%				2% 1%
Export Bilaterals Wheels Through Market Share of Total Load	4% 2% 0%	2% 0%	2% 0%	2% 0%	2% 0%	1% 0%	1%	1%	1% 1%	2% 1%	2% 0%	1%
Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	4% 2% 0% 95.4%	2% 0% 97.8%	2% 0% 99.5%	2% 0% 98.8%	2% 0% 97.8%	1% <u>0%</u> 100.9%	<u>1%</u> 99.1%	<u>1%</u> 96.5%	1% <u>1%</u> 98.7%	2% 1% 98.1%	2% 0% 101.3%	<u>1%</u> 97.0%
Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market Balancing Energy +	4% 2% 0% 95.4% 4.6%	2% 0% 97.8% 2.2%	2% 0% 99.5% 0.5%	2% 0% 98.8% 1.2%	2% 0% 97.8% 2.2%	1% <u>0%</u> 100.9% -0.9%	1% 99.1% 0.9%	1% 96.5% 3.5%	1% <u>1%</u> 98.7% 1.3%	2% <u>1%</u> 98.1% 1.9%	2% 0% 101.3% -1.3%	1% 97.0% 3.0%
Export Bilaterals Wheels Through Market Share of Total Load Day Ahead Market	4% 2% 0% 95.4%	2% 0% 97.8% 2.2%	2% 0% 99.5%	2% 0% 98.8%	2% 0% 97.8%	1% <u>0%</u> 100.9%	1% 99.1% 0.9%	1% 96.5% 3.5%	1% <u>1%</u> 98.7% 1.3%	2% 1% 98.1%	2% 0% 101.3% -1.3%	1% 97.0% 3.0%

+ Balancing Energy: Load(MW) purchased at Real Time LBMP.

\* The signs for the detail section intuitively reflect the direction of power flow eliminating the use of double negatives when Balancing Energy is negative.

Notes: Percent totals may not equal 100% due to rounding. Virtual Transactions are not reflected in this chart.

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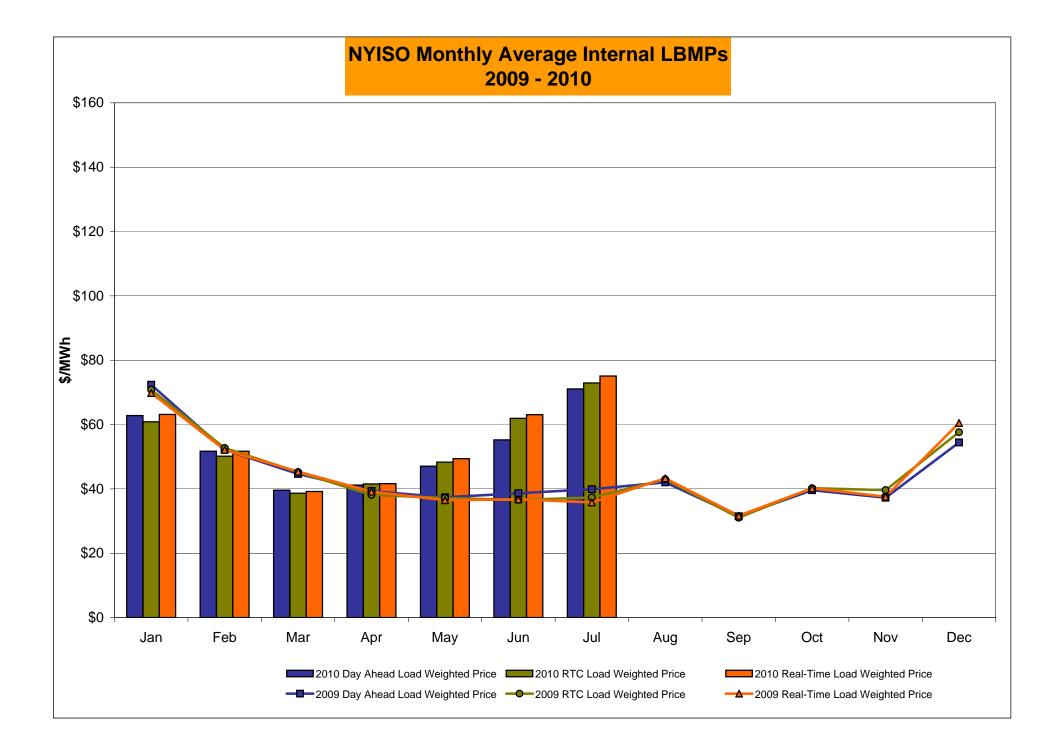
#### NYISO Markets 2010 Energy Statistics

	<u>January</u>	<b>February</b>	March	April	May	June	July	August September	October November December
DAY AHEAD LBMP		-			-		-		
Price *	\$60.96	\$50.47	\$38.69	\$40.13	\$45.29	\$52.71	\$66.67		
Standard Deviation	\$20.86	\$13.07	\$7.78	\$8.09	\$11.45	\$16.14	\$28.01		
Load Weighted Price **	\$62.80	\$51.71	\$39.60	\$41.18	\$47.04	\$55.22	\$71.08		
RTC LBMP									
Price *	\$59.32	\$49.38	\$37.94	\$40.58	\$46.70	\$58.69	\$68.36		
Standard Deviation	\$33.92	\$24.97	\$14.48	\$13.84	\$21.47	\$58.47	\$51.68		
Load Weighted Price **	\$60.85	\$50.16	\$38.64	\$41.54	\$48.31	\$61.91	\$72.92		
REAL TIME LBMP									
Price *	\$60.40	\$50.45	\$38.09	\$40.49	\$47.17	\$58.49	\$69.42		
Standard Deviation	\$42.06	\$30.38	\$19.24	\$17.00	\$28.15	\$56.05	\$56.60		
Load Weighted Price **	\$63.13	\$51.69	\$39.19	\$41.62	\$49.38	\$63.06	\$75.08		
Average Daily Energy Sendout/Month GWh	451	444	410	387	415	491	558		

#### NYISO Markets 2009 Energy Statistics

	<u>January</u>	<u>February</u>	March	<u>April</u>	May	June	July	August	<u>September</u>	<u>October</u>	November [	December
DAY AHEAD LBMP												
Price *	\$70.53	\$50.89	\$43.34	\$38.19	\$36.13	\$37.01	\$37.93	\$39.80	\$30.27	\$38.35	\$36.20	\$52.90
Standard Deviation	\$19.46	\$13.06	\$12.24	\$9.26	\$8.91	\$10.07	\$11.53	\$13.37	\$8.77	\$11.41	\$8.92	\$15.12
Load Weighted Price **	\$72.36	\$52.15	\$44.64	\$39.31	\$37.38	\$38.64	\$39.88	\$42.03	\$31.48	\$39.59	\$37.25	\$54.44
RTC LBMP												
Price *	\$69.26	\$51.46	\$43.88	\$37.06	\$36.18	\$35.15	\$35.97	\$40.81	\$30.04	\$38.87	\$38.70	\$56.09
Standard Deviation	\$23.37	\$21.26	\$20.38	\$15.20	\$12.48	\$20.07	\$17.38	\$23.89	\$12.77	\$24.97	\$18.60	\$35.17
Load Weighted Price **	\$70.80	\$52.72	\$45.21	\$38.14	\$37.16	\$36.57	\$37.29	\$42.97	\$31.04	\$40.22	\$39.62	\$57.62
<u>REAL TIME LBMP</u>												
Price *	\$68.14	\$50.62	\$43.73	\$37.72	\$35.11	\$34.92	\$34.13	\$40.40	\$30.36	\$38.46	\$36.43	\$57.99
Standard Deviation	\$23.66	\$20.30	\$22.27	\$20.84	\$19.81	\$29.81	\$23.16	\$25.84	\$16.66	\$28.61	\$17.84	\$40.84
Load Weighted Price **	\$69.80	\$52.14	\$45.36	\$39.13	\$36.48	\$36.73	\$35.82	\$43.29	\$31.66	\$40.19	\$37.57	\$60.47
Average Daily Energy Sendout/Month GWh	470	447	422	400	396	427	469	511	425	400	401	447

\* Average zonal load weighted prices.
\*\* Average zonal load weighted prices, load weighted in each hour.

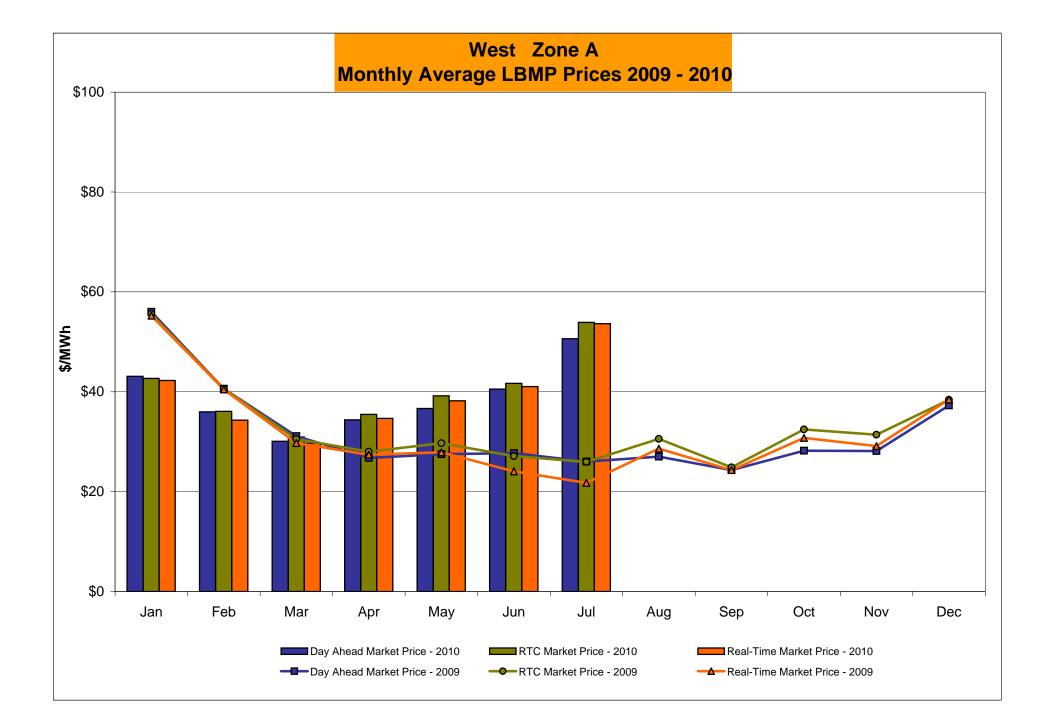


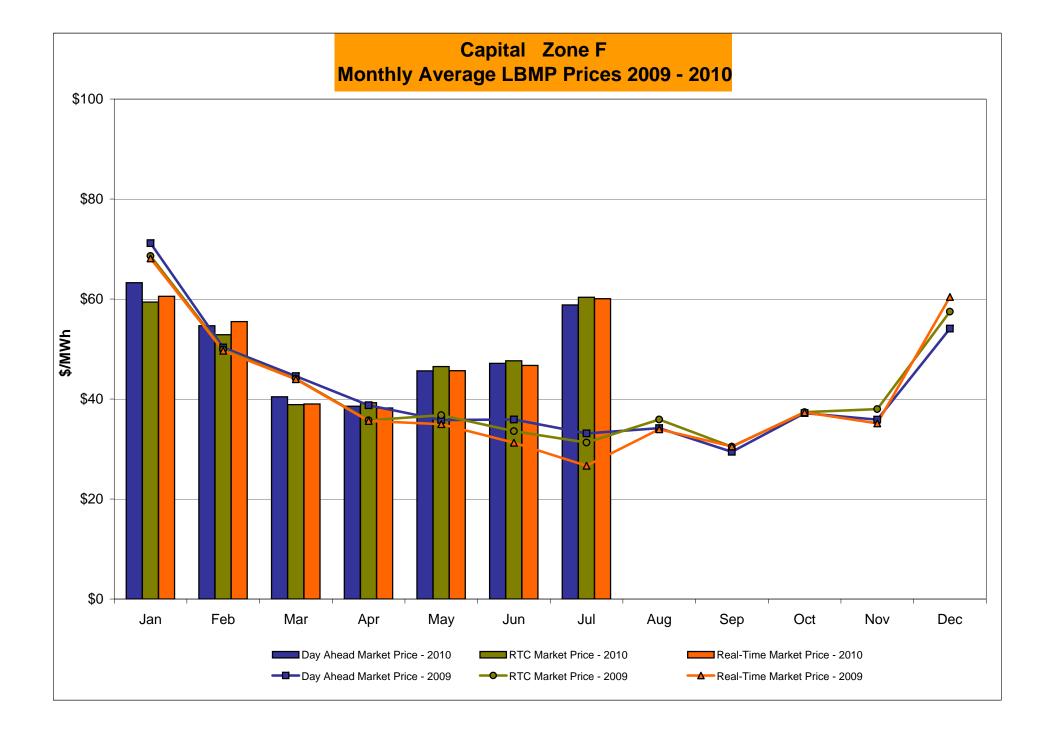
#### July 2010 Zonal LBMP Statistics for NYISO (\$/MWh)

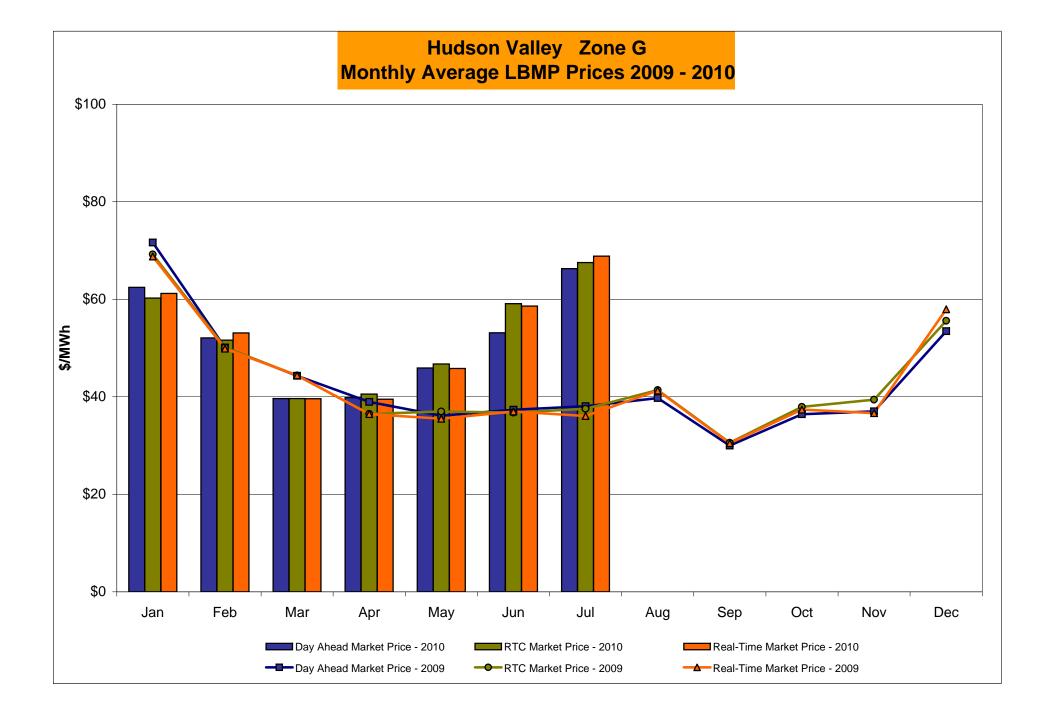
DAY AHEAD LBMP	WEST <u>Zone A</u>	GENESEE Zone B	NORTH <u>Zone D</u>	CENTRAL Zone C	MOHAWK VALLEY <u>Zone E</u>	CAPITAL Zone F	HUDSON VALLEY <u>Zone G</u>	MILLWOOD Zone H	DUNWOODIE <u>Zone I</u>	NEW YORK CITY <u>Zone J</u>	LONG ISLAND <u>Zone K</u>
Unweighted Price *	50.61	52.99	52.78	54.36	56.75	58.83	66.29	68.00	68.27	74.76	75.91
Standard Deviation	15.87	16.90	15.75	17.31	18.47	20.31	30.11	33.55	33.92	34.66	37.23
Stanuaru Deviation	15.67	10.90	15.75	17.51	10.47	20.31	50.11	55.55	55.92	54.00	57.25
RTC LBMP											
Unweighted Price *	53.88	56.20	55.28	56.90	59.14	60.35	67.55	70.47	70.95	76.94	74.29
Standard Deviation	28.81	30.69	27.85	30.62	31.60	32.53	60.50	75.13	76.07	73.93	60.90
REAL TIME LBMP											
Unweighted Price *	53.63	55.89	54.99	56.60	58.95	60.07	68.86	71.88	72.42	78.74	76.66
Standard Deviation	26.35	27.96	25.40	27.91	29.71	30.27	69.19	83.50	85.01	83.52	67.85

	ONTARIO IESO	HYDRO QUEBEC (Wheel) (	HYDRO QUEBEC (Import/Export)	РЈМ	NEW ENGLAND	CROSS SOUND CABLE	NORTHPORT- NORWALK	NEPTUNE		Dennison
	Zone O	Zone M	Zone M	Zone P	Zone N	Controllable Line	Controllable Line	Controllable Line	Controllable Line	Controllable Line
DAY AHEAD LBMP				Lone		<u></u>				21110
Unweighted Price *	49.48	53.06	52.34	61.15	61.79	75.44	71.03	74.26	59.22	52.35
Standard Deviation	15.14	15.98	15.78	25.90	24.32	37.30	32.94	36.72	14.47	15.62
RTC LBMP										
Unweighted Price *	49.97	18.99	17.85	58.88	57.71	68.93	67.52	68.83	60.95	51.69
Standard Deviation	18.73	175.82	175.54	24.26	22.51	45.27	44.79	45.54	29.65	17.81
REAL TIME LBMP										
Unweighted Price *	51.27	52.03	50.88	60.21	60.95	73.21	72.10	73.05	65.37	53.19
Standard Deviation	25.20	26.44	25.59	53.65	42.54	62.36	61.66	62.13	57.32	24.66

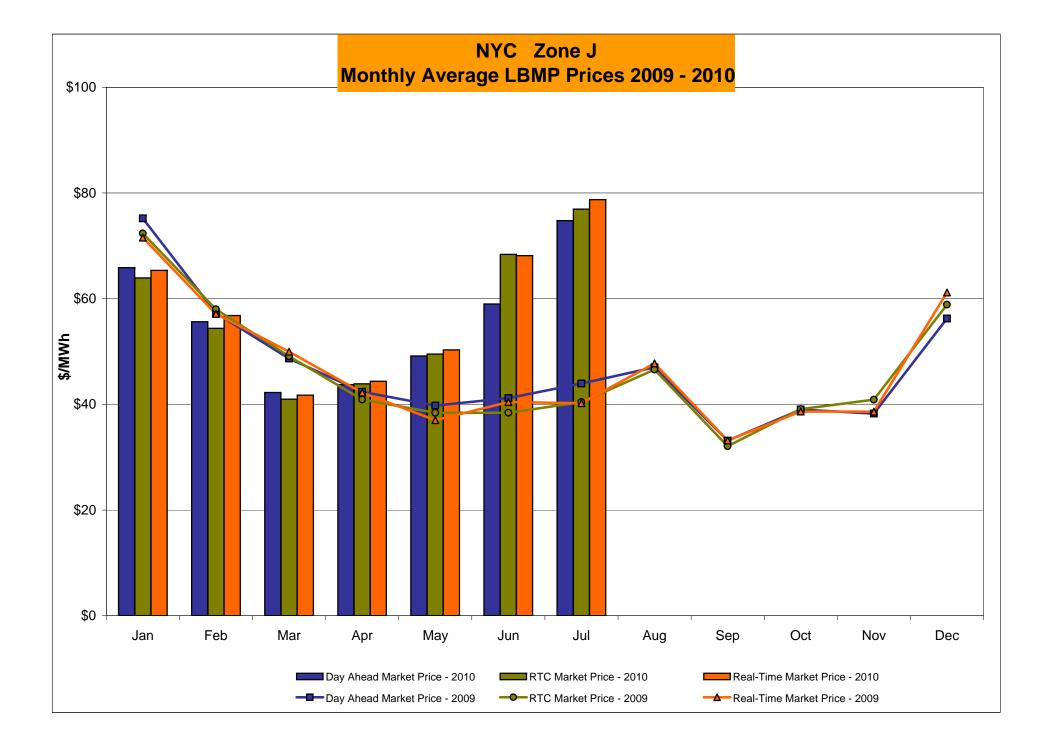
\* Straight LBMP averages



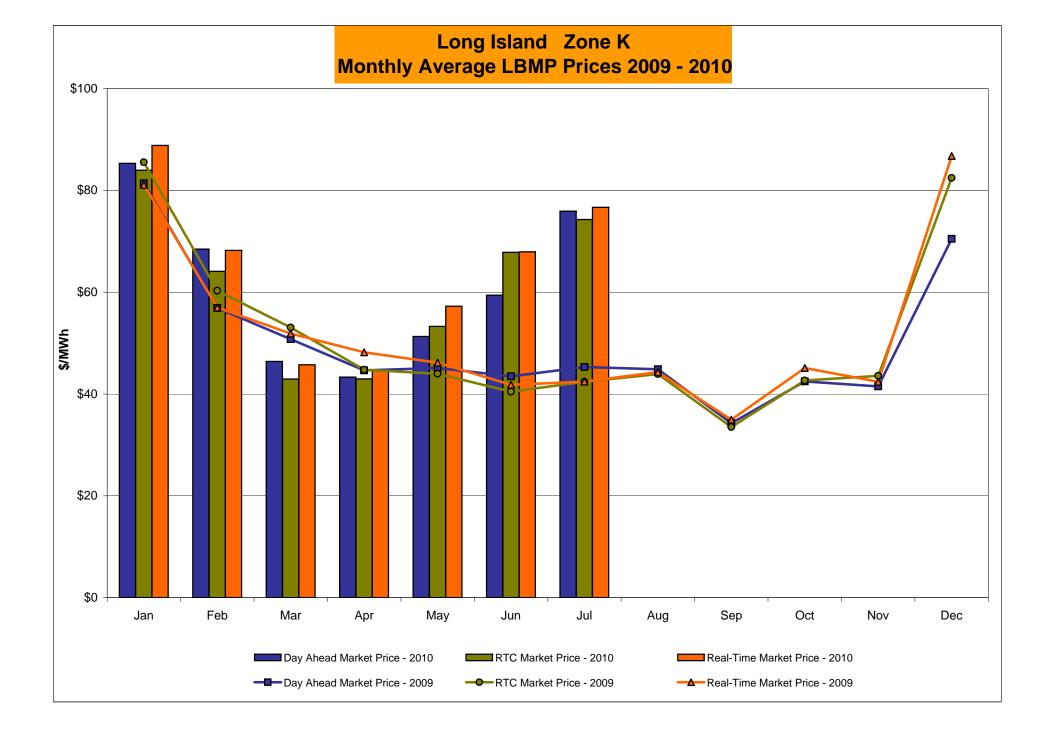


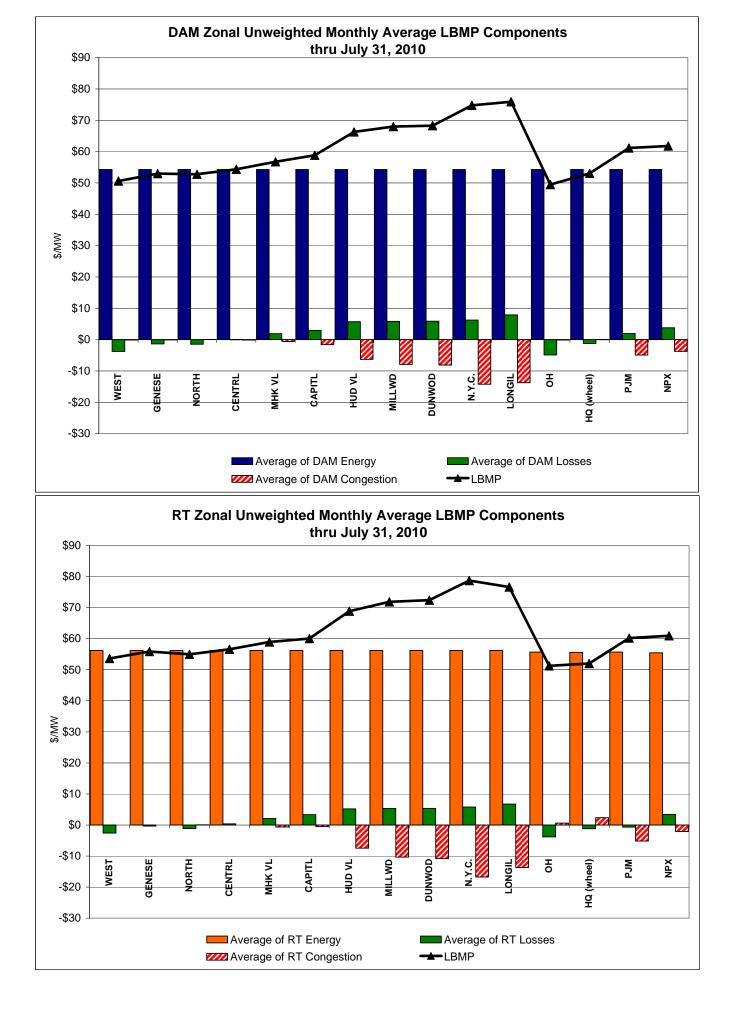


#### Market Mitigation and Analysis Prepared:8/4/2010 11:16 AM



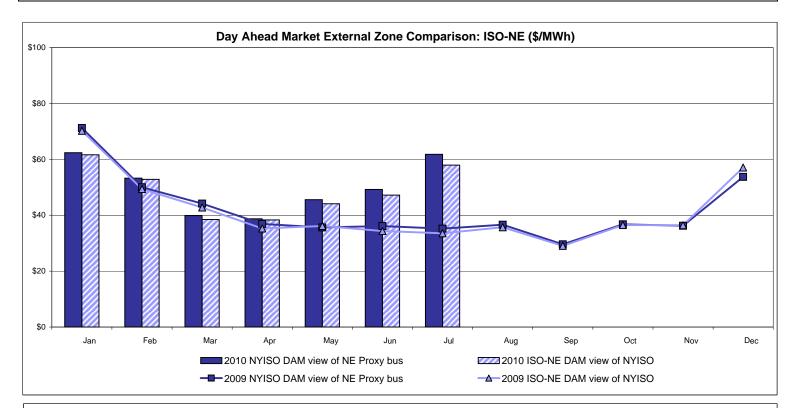
Market Mitigation and Analysis Prepared:8/4/2010 11:16 AM

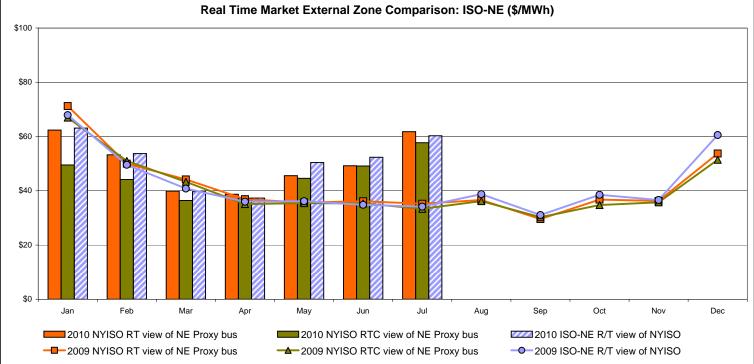




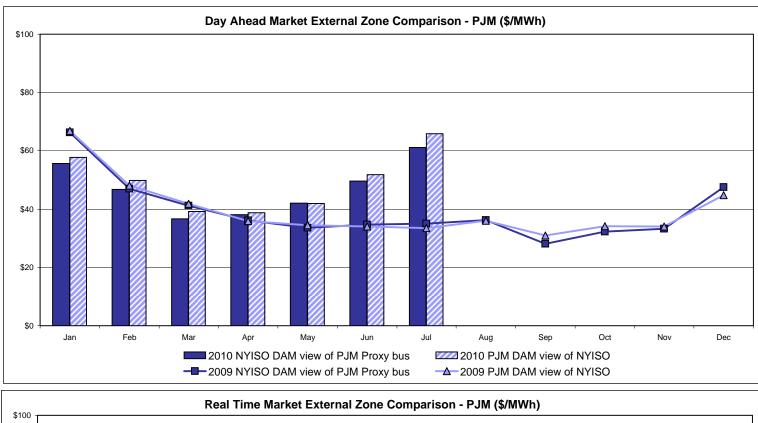
#### Market Mitigation and Analysis Prepared:8/4/2010 1:58 PM

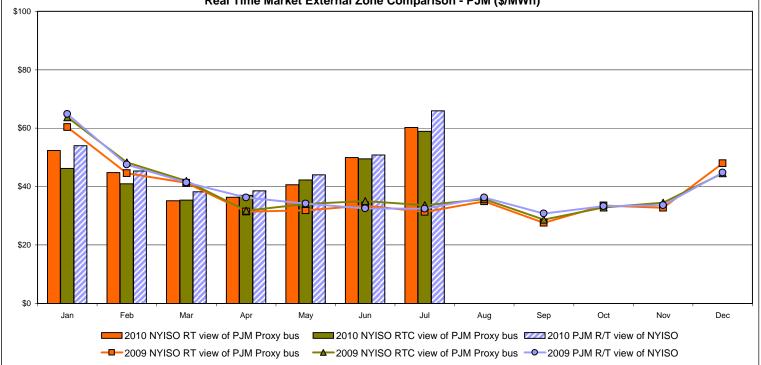
# External Comparison ISO-New England



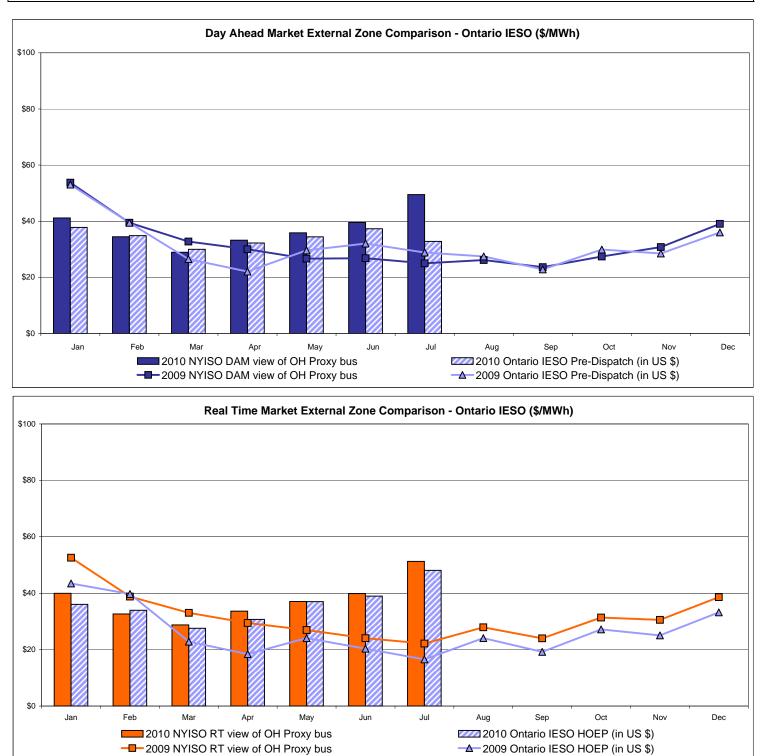


### **External Comparison PJM**

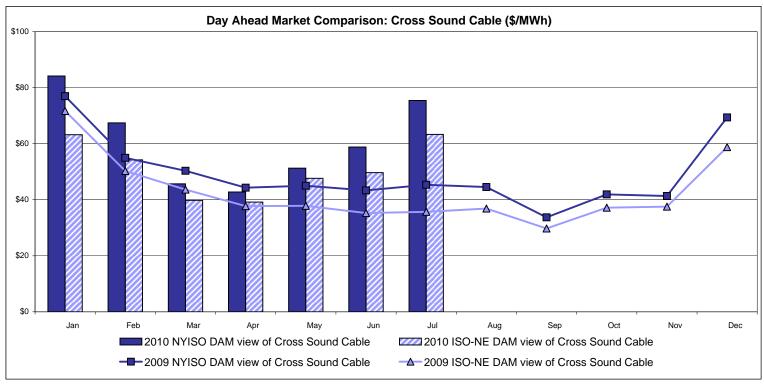




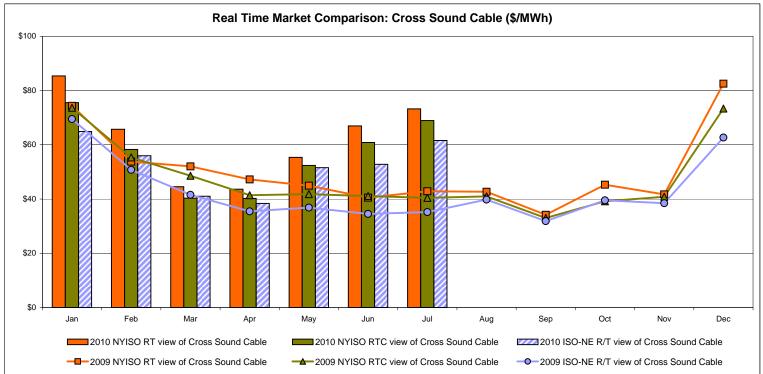
#### **External Comparison Ontario IESO**



Notes: Exchange factor used for July 2010 was 0.96 to US \$ HOEP: Hourly Ontario Energy Price Pre-Dispatch: Projected Energy Price



## External Controllable Line: Cross Sound Cable (New England)

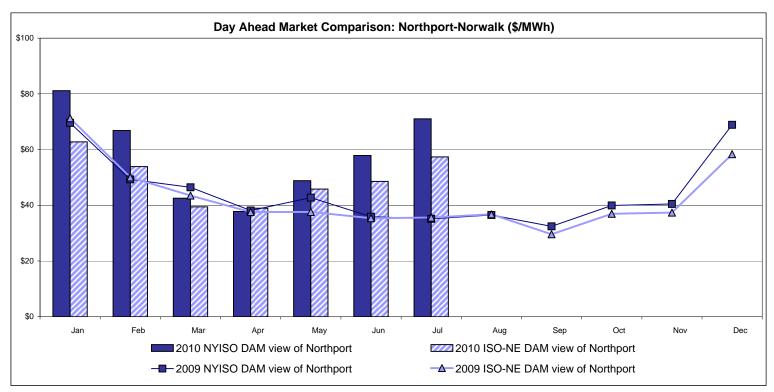


Note:

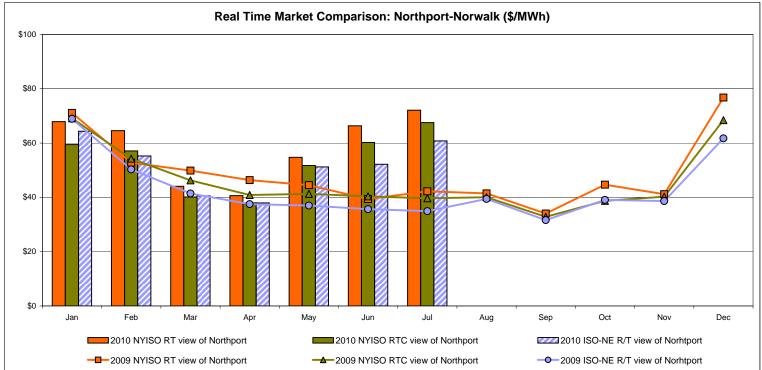
ISO-NE Forecast is an advisory posting @ 18:00 day before.

The DAM and R/T prices at the Shorham138 99 interface are used for ISO-NE.

The DAM and R/T prices at the CSC interface are used for NYISO.



# External Controllable Line: Northport - Norwalk (New England)

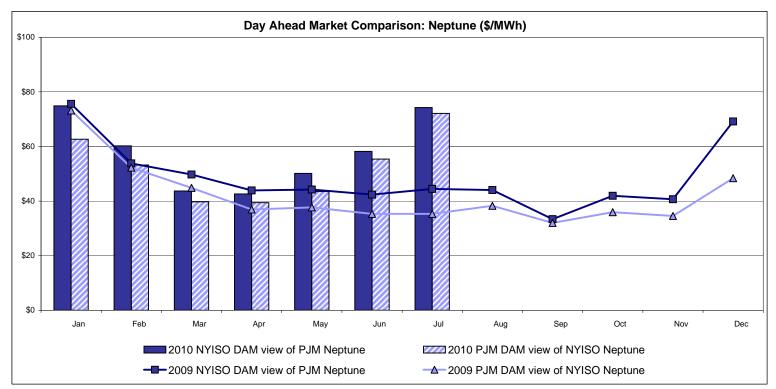


#### Note:

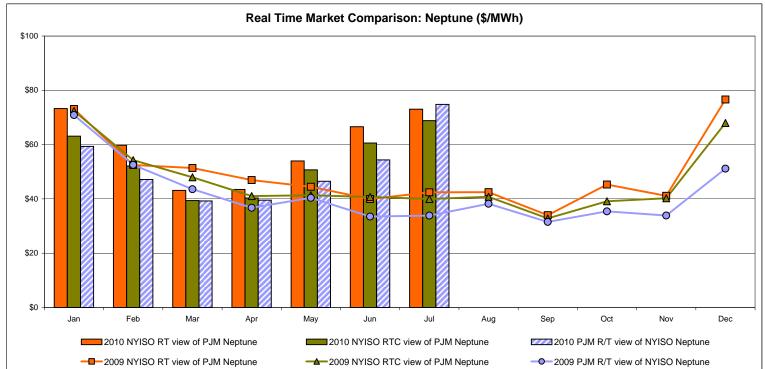
ISO-NE Forecast is an advisory posting @ 18:00 day before.

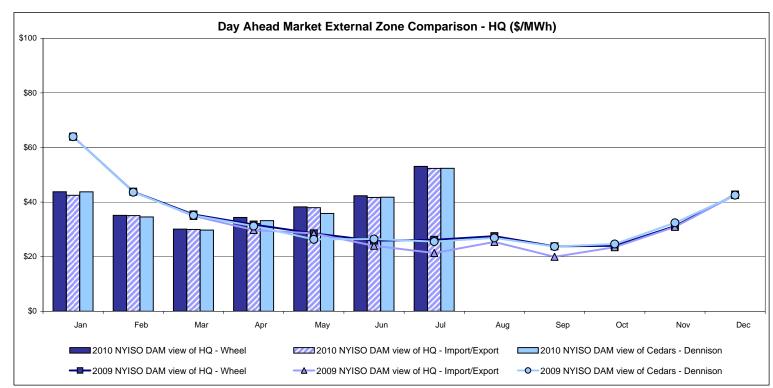
The DAM and R/T prices at the Northport 138 interface are used for ISO-NE.

The DAM and R/T prices at the 1385 interface are used for NYISO.

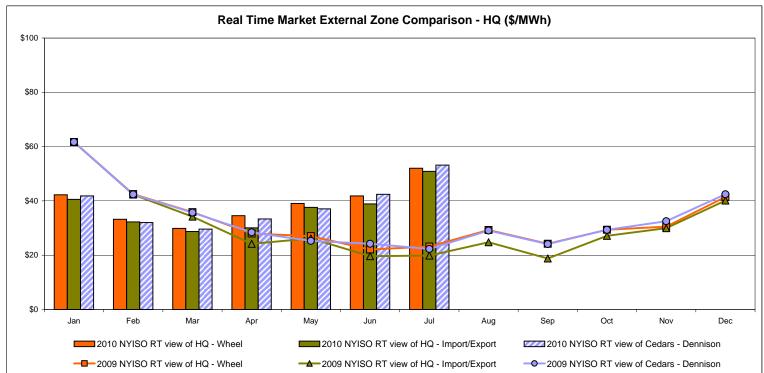


# External Controllable Line: Neptune (PJM)



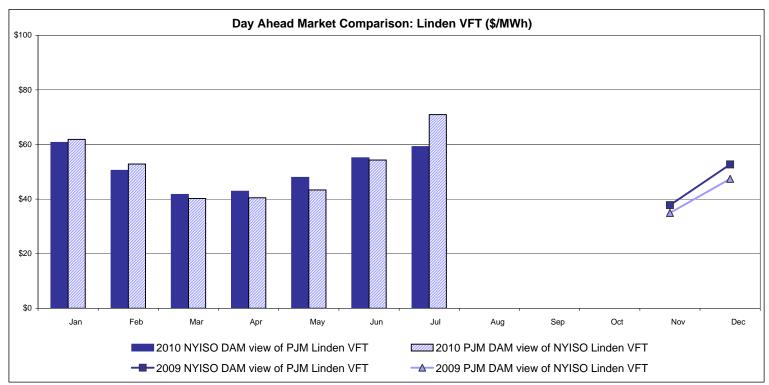


### **External Comparison Hydro-Quebec**

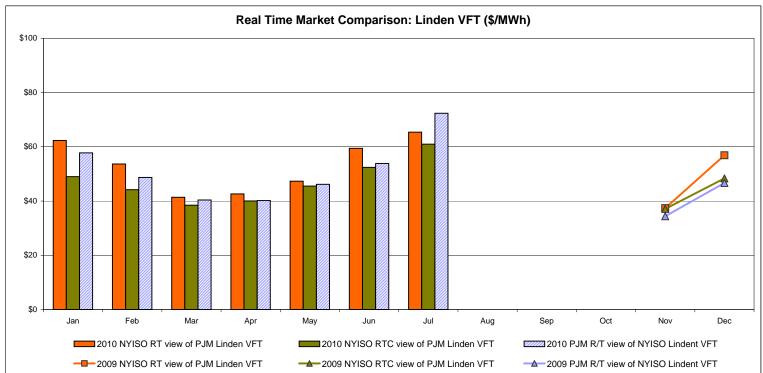


Note:

Hydro-Quebec Prices are unavailable.



# External Controllable Line: Linden VFT (PJM)

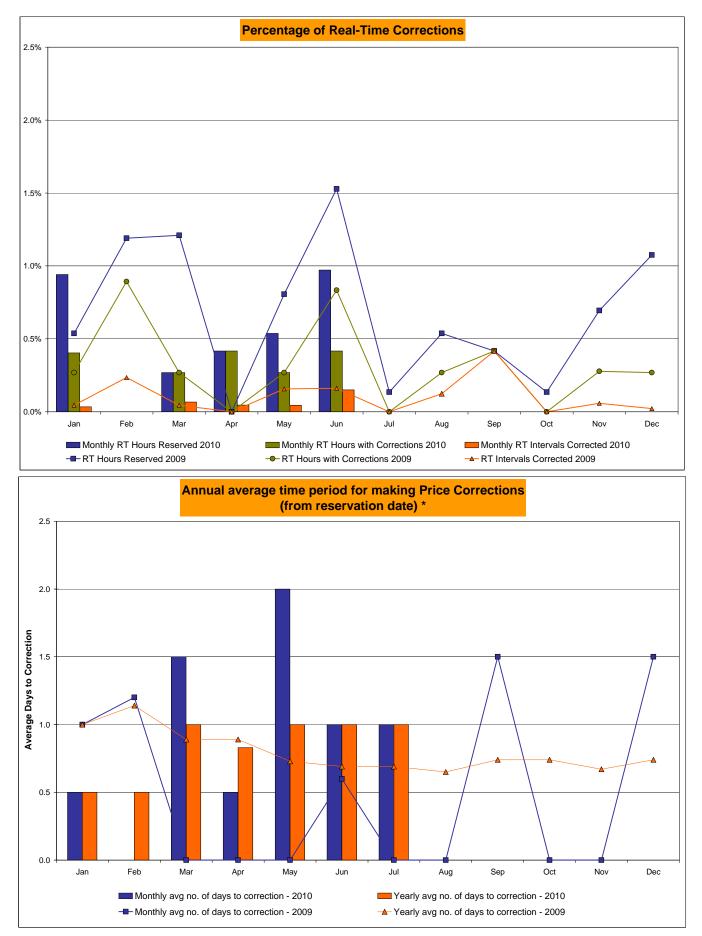


Note: Linden VFT Scheduled Line Data available beginning 11/1/2009.

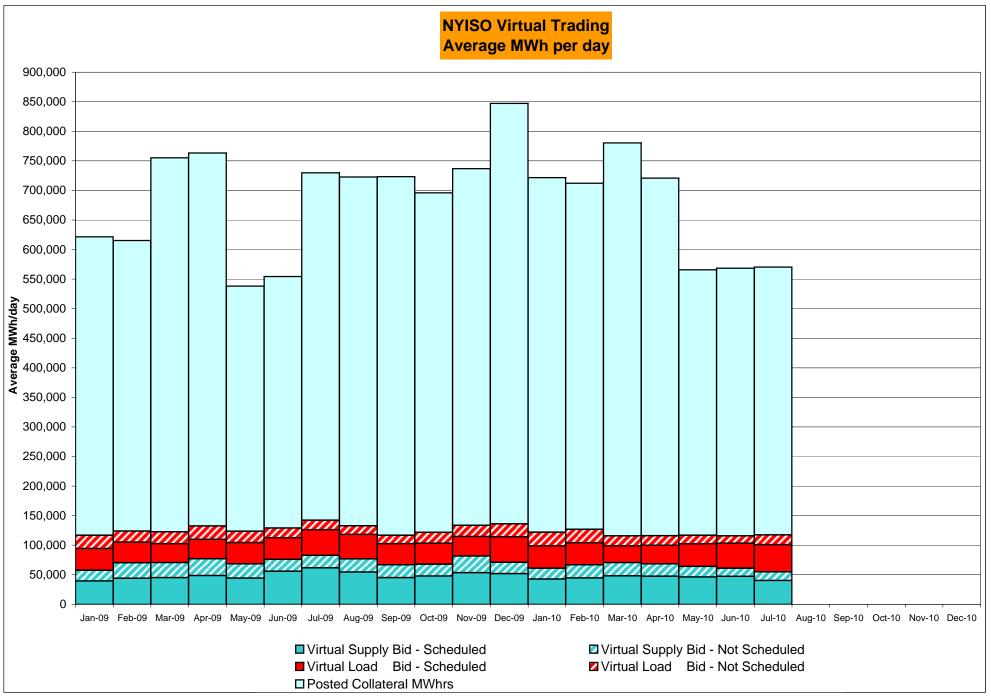
#### **NYISO Real Time Price Correction Statistics**

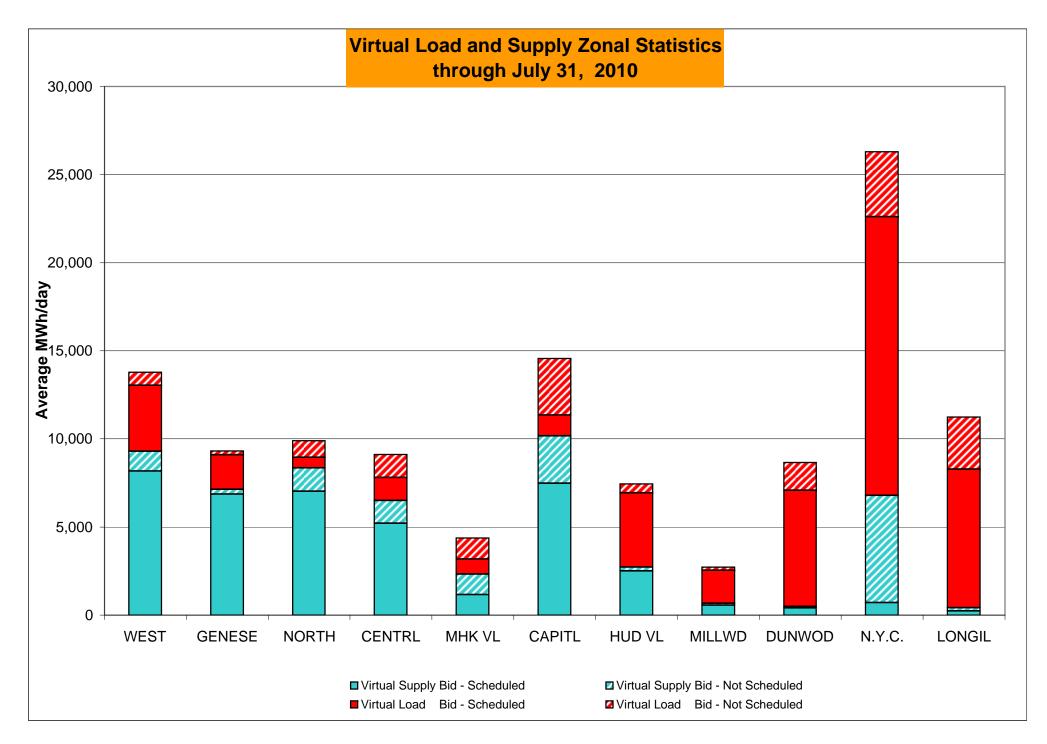
2010 Hour Corrections		January	February	March	<u>April</u>	<u>May</u>	<u>June</u>	July	August	<u>September</u>	<u>October</u>	<u>November</u>	December
Number of hours with corrections	in the month	3	0	2	3	2	3	0					
Number of hours	in the month	744	672	744	720	744	720	744					
% of hours with corrections	in the month	0.40%	0.00%	0.27%	0.42%	0.27%	0.42%	0.00%					
% of hours with corrections	year-to-date	0.40%	0.21%	0.23%	0.28%	0.28%	0.30%	0.26%					
Interval Corrections													
Number of intervals corrected	in the month	3	0	6	4	4	13	0					
Number of intervals	in the month	8,934	8,057	8,913	8,640	8,946	8,660	8,955					
% of intervals corrected	in the month	0.03%	0.00%	0.07%	0.05%	0.04%	0.15%	0.00%					
% of intervals corrected	year-to-date	0.03%	0.02%	0.03%	0.04%	0.04%	0.06%	0.05%					
Hours Reserved													
Number of hours reserved	in the month	7	0	2	3	4	7	0					
Number of hours	in the month	744	672	744	720	744	720	744					
% of hours reserved	in the month	0.94%	0.00%	0.27%	0.42%	0.54%	0.97%	0.00%					
% of hours reserved	year-to-date	0.94%	0.49%	0.42%	0.42%	0.44%	0.53%	0.45%					
Days to Correction *	*												
Avg. number of days to correction	in the month	0.50	0.00	1.50	0.50	2.00	1.00	1.00					
Avg. number of days to correction	year-to-date	0.50	0.50	1.00	0.83	1.00	1.00	1.00					
Days Without Corrections													
Days without corrections	in the month	29	28	29	28	30	28	31					
Days without corrections	year-to-date	29	57	86	114	144	172	203					
2009		January	February	March	April	May	June	July	August	September	October	November	December
2009 Hour Corrections		<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>
	in the month	<u>January</u> 2	<u>February</u> 6	<u>March</u> 2	<u>April</u> 0	<u>May</u> 2	<u>June</u> 6	<u>July</u> 0	<u>August</u> 2	<u>September</u> 3	<u>October</u> 0	<u>November</u> 2	<u>December</u> 2
Hour Corrections	in the month in the month												
Hour Corrections Number of hours with corrections		2	6	2	0	2	6	0	2	3	0	2	2
Hour Corrections Number of hours with corrections Number of hours	in the month	2 744	6 672	2 744	0 720	2 744	6 720	0 744	2 744	3 720	0 744	2 720	2 744
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections	in the month in the month	2 744 0.27%	6 672 0.89%	2 744 0.27%	0 720 0.00%	2 744 0.27%	6 720 0.83%	0 744 0.00%	2 744 0.27%	3 720 0.42%	0 744 0.00%	2 720 0.28%	2 744 0.27%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections	in the month in the month	2 744 0.27%	6 672 0.89%	2 744 0.27%	0 720 0.00%	2 744 0.27%	6 720 0.83%	0 744 0.00%	2 744 0.27%	3 720 0.42%	0 744 0.00%	2 720 0.28%	2 744 0.27%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections	in the month in the month year-to-date	2 744 0.27% 0.27%	6 672 0.89% 0.56%	2 744 0.27% 0.46%	0 720 0.00% 0.35%	2 744 0.27% 0.33%	6 720 0.83% 0.41%	0 744 0.00% 0.35%	2 744 0.27% 0.34%	3 720 0.42% 0.35%	0 744 0.00% 0.32%	2 720 0.28% 0.31%	2 744 0.27% 0.31%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected	in the month in the month year-to-date in the month	2 744 0.27% 0.27%	6 672 0.89% 0.56%	2 744 0.27% 0.46%	0 720 0.00% 0.35%	2 744 0.27% 0.33%	6 720 0.83% <u>0.41%</u> 14	0 744 0.00% <u>0.35%</u> 0	2 744 0.27% 0.34% 11**	3 720 0.42% <u>0.35%</u> 36	0 744 0.00% <u>0.32%</u> 0	2 720 0.28% 0.31%	2 744 0.27% 0.31% 2
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals	in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 4 8,966	6 672 0.89% 0.56% 19 8,082	2 744 0.27% 0.46% 4 8,933	0 720 0.00% 0.35% 0 8,639	2 744 0.27% 0.33% 14 8,941	6 720 0.83% 0.41% 14 8,655	0 744 0.00% 0.35% 0 8,947	2 744 0.27% 0.34% 11** 8,910	3 720 0.42% 0.35% 36 8,656	0 744 0.00% 0.32% 0 8,933	2 720 0.28% 0.31% 5 8,632	2 744 0.27% 0.31% 2 8,941
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 4 8,966 0.04%	6 672 0.89% 0.56% 19 8,082 0.24%	2 744 0.27% 0.46% 4 8,933 0.04%	0 720 0.00% 0.35% 0 8,639 0.00%	2 744 0.27% 0.33% 14 8,941 0.16%	6 720 0.83% 0.41% 14 8,655 0.16%	0 744 0.00% 0.35% 0 8,947 0.00%	2 744 0.27% 0.34% 11** 8,910 0.12%	3 720 0.42% 0.35% 36 8,656 0.42%	0 744 0.00% 0.32% 0 8,933 0.00%	2 720 0.28% 0.31% 5 8,632 0.06%	2 744 0.27% 0.31% 2 8,941 0.02%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected	in the month in the month year-to-date in the month in the month in the month	2 744 0.27% 0.27% 4 8,966 0.04%	6 672 0.89% 0.56% 19 8,082 0.24%	2 744 0.27% 0.46% 4 8,933 0.04%	0 720 0.00% 0.35% 0 8,639 0.00%	2 744 0.27% 0.33% 14 8,941 0.16%	6 720 0.83% 0.41% 14 8,655 0.16%	0 744 0.00% 0.35% 0 8,947 0.00%	2 744 0.27% 0.34% 11** 8,910 0.12%	3 720 0.42% 0.35% 36 8,656 0.42%	0 744 0.00% 0.32% 0 8,933 0.00%	2 720 0.28% 0.31% 5 8,632 0.06%	2 744 0.27% 0.31% 2 8,941 0.02%
Hour Corrections Number of hours with corrections Number of hours % of hours with corrections % of hours with corrections Interval Corrections Number of intervals corrected Number of intervals % of intervals corrected % of intervals corrected Hours Reserved	in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 4 8,966 0.04% 0.04%	6 672 0.89% 0.56% 19 8,082 0.24% 0.13%	2 744 0.27% 0.46% 4 8,933 0.04% 0.10%	0 720 0.00% 0.35% 0 8,639 0.00% 0.08%	2 744 0.27% 0.33% 14 8,941 0.16% 0.09%	6 720 0.83% 0.41% 14 8,655 0.16% 0.11%	0 744 0.00% 0.35% 0 8,947 0.00% 0.09%	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09%	3 720 0.42% 0.35% 36 8,656 0.42% 0.13%	0 744 0.00% 0.32% 0 8,933 0.00% 0.12%	2 720 0.28% 0.31% 5 8,632 0.06% 0.11%	2 744 0.27% 0.31% 2 8,941 0.02% 0.10%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 4	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11	0 744 0.00% 0.35% 0 8,947 0.00% 0.09%	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours	in the month in the month year-to-date in the month in the month year-to-date in the month in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 4 744	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672 1.19%	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00%	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54%	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69%	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of nours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54%	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21%	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81%	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720 1.53%	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13%	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42%	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13%	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Mumber of neuros         Mumber of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54%	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672 1.19%	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21%	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00%	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81%	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720 1.53%	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13%	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54%	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42%	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13%	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69%	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08%
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54% 0.54%	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672 1.19% 0.85%	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21% 0.97%	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00% 0.73%	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81% 0.75%	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720 1.53% 0.87%	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13% 0.77%	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54% 0.74%	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42% 0.70%	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13% 0.64%	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69% 0.65%	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08% 0.68%
Hour Corrections         Number of hours with corrections         % of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54% 0.54% 1.00	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672 1.19% 0.85% 1.20	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21% 0.97% 0.00	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00% 0.73% 0.00	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81% 0.75% 0.00	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720 1.53% 0.87% 0.60	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13% 0.77% 0.00	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54% 0.74% 0.00	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42% 0.42% 0.70% 1.50	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13% 0.64% 0.00	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69% 0.65% 0.00	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08% 0.68% 1.50
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved	in the month in the month year-to-date in the month in the month year-to-date in the month in the month in the month year-to-date in the month	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54% 0.54% 1.00	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 8 672 1.19% 0.85% 1.20	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21% 0.97% 0.00	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00% 0.73% 0.00	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81% 0.75% 0.00	6 720 0.83% 0.41% 14 8,655 0.16% 0.11% 11 720 1.53% 0.87% 0.60	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13% 0.77% 0.00	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54% 0.74% 0.00	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42% 0.42% 0.70% 1.50	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13% 0.64% 0.00	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69% 0.65% 0.00	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08% 0.68% 1.50
Hour Corrections         Number of hours with corrections         Number of hours with corrections         % of hours with corrections         Interval Corrections         Number of intervals corrected         Number of intervals corrected         % of intervals corrected         Mumber of hours reserved         Number of hours reserved         % of hours reserved         % of hours reserved         % of hours reserved         Days to Correction *         Avg. number of days to correction         Avg. number of days to correction         Days Without Corrections	in the month in the month year-to-date in the month in the month in the month year-to-date in the month in the month year-to-date in the month year-to-date	2 744 0.27% 0.27% 4 8,966 0.04% 0.04% 0.04% 4 744 0.54% 0.54% 1.00 1.00	6 672 0.89% 0.56% 19 8,082 0.24% 0.13% 0.24% 0.13% 8 672 1.19% 0.85% 1.20 1.14	2 744 0.27% 0.46% 4 8,933 0.04% 0.10% 9 744 1.21% 0.97% 0.00 0.89	0 720 0.00% 0.35% 0 8,639 0.00% 0.08% 0 720 0.00% 0.73% 0.00 0.89	2 744 0.27% 0.33% 14 8,941 0.16% 0.09% 6 744 0.81% 0.75% 0.00 0.73	6 720 0.83% 0.41% 14 8,655 0.16% 0.16% 0.11% 11 720 1.53% 0.87% 0.60 0.69	0 744 0.00% 0.35% 0 8,947 0.00% 0.09% 1 744 0.13% 0.77% 0.00 0.69	2 744 0.27% 0.34% 11** 8,910 0.12% 0.09% 4 744 0.54% 0.74% 0.74% 0.00 0.65	3 720 0.42% 0.35% 36 8,656 0.42% 0.13% 3 720 0.42% 0.70% 1.50 0.74	0 744 0.00% 0.32% 0 8,933 0.00% 0.12% 1 744 0.13% 0.64% 0.00 0.74	2 720 0.28% 0.31% 5 8,632 0.06% 0.11% 5 720 0.69% 0.65% 0.00 0.67	2 744 0.27% 0.31% 2 8,941 0.02% 0.10% 8 744 1.08% 0.68% 1.50 0.74

\* Calendar days from reservation date.



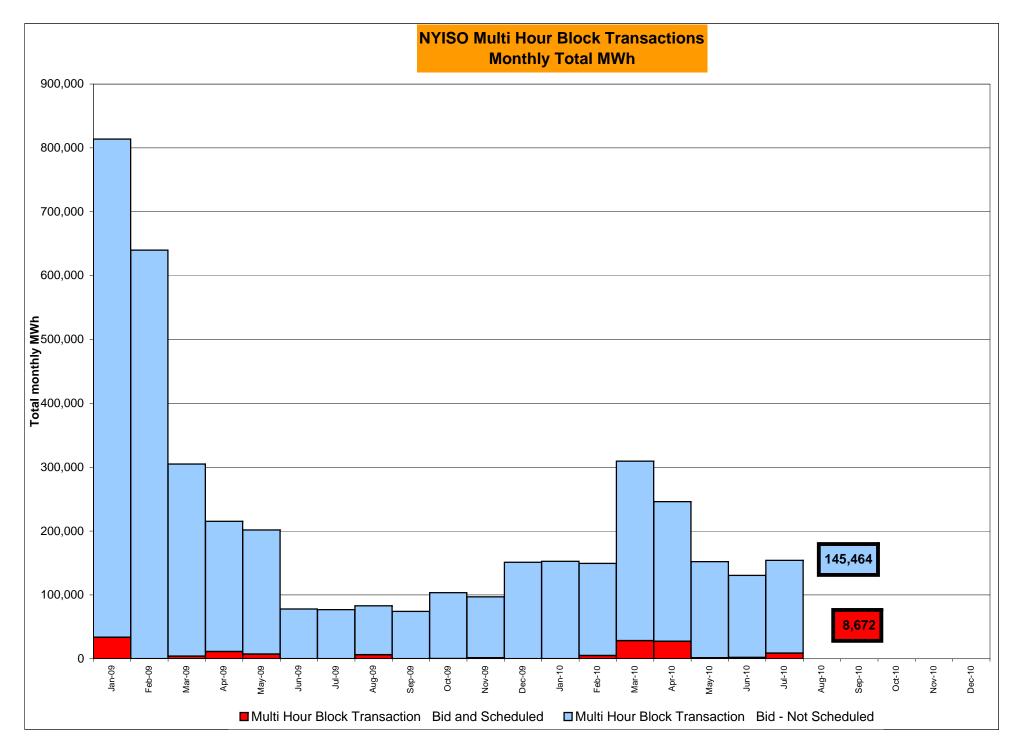
\* Calendar days from reservation date.



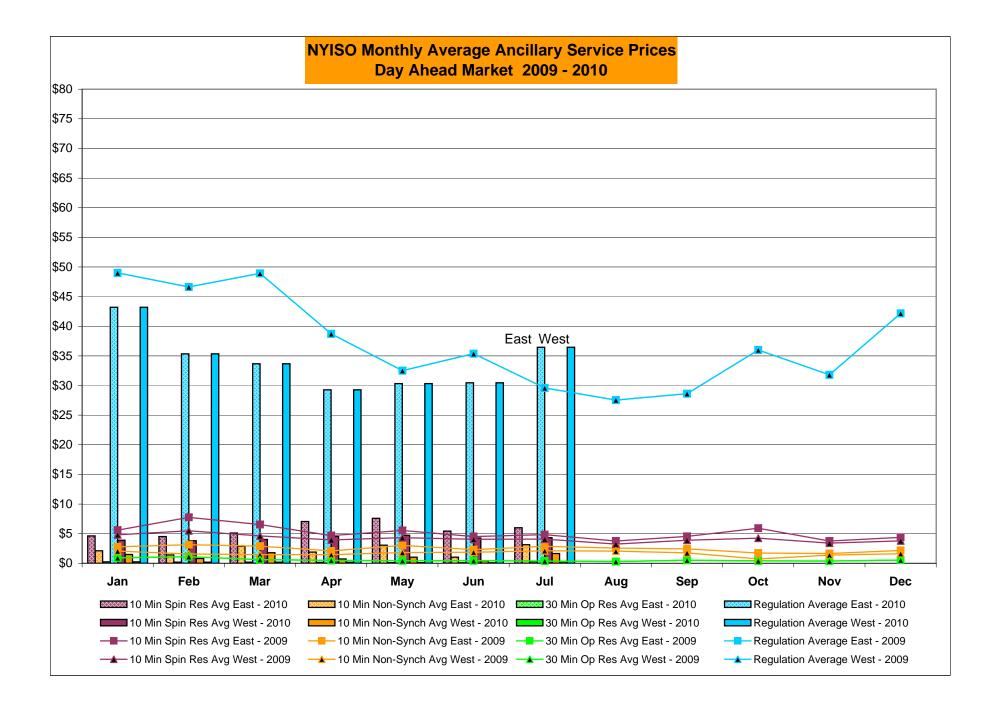


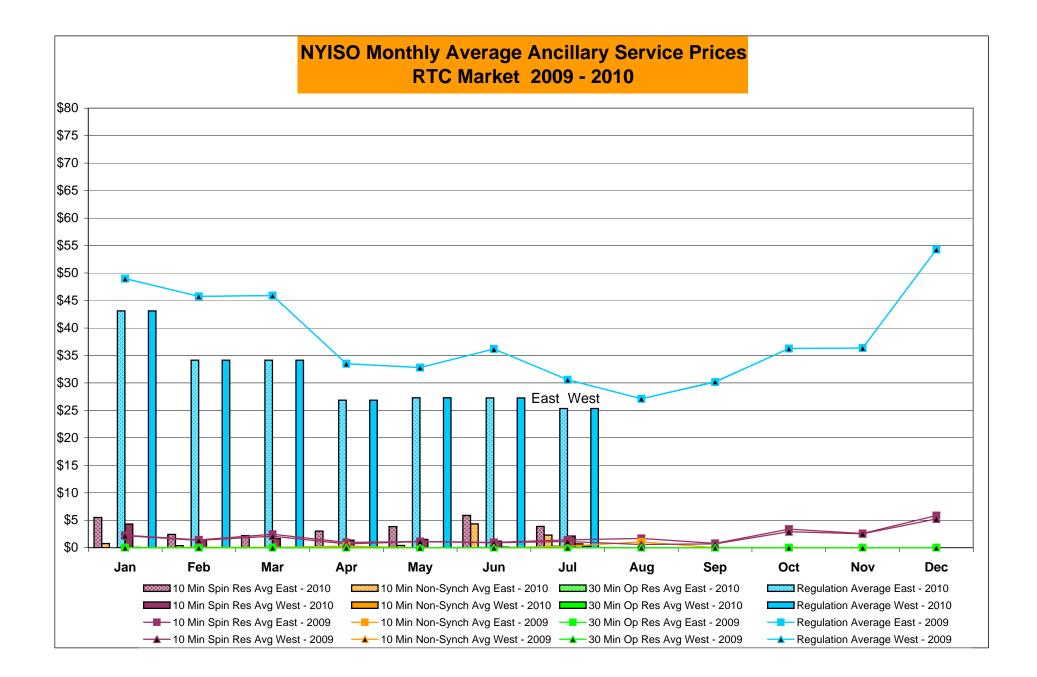
#### Virtual Load and Supply Zonal Statistics (Average MWh/day) - 2010

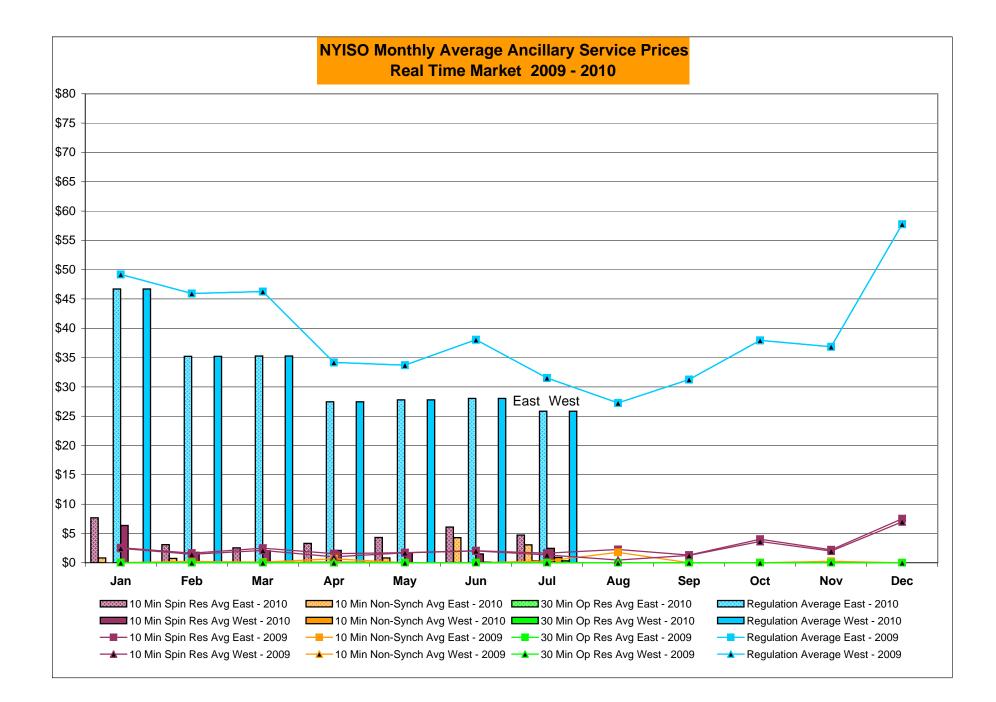
		Virtual Lo	oad Bid	Virtual S	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid			Virtual L	oad Bid	Virtual Su	upply Bid
			Not		Not				Not		Not				Not		Not
Zone	Date		Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled	Zone	Date	Scheduled	Scheduled	Scheduled	Scheduled
WEST	Jan-10	,	639	7,053	1,096	MHK VL	Jan-10	566	1,360	1,944	1,812	DUNWOD	Jan-10		715		493
	Feb-10		1,503	5,731	2,602	_	Feb-10	900	1,327	1,812			Feb-10		852		
	Mar-10		500	7,531	2,586	_	Mar-10	2,071	1,405				Mar-10		691	818	
	Apr-10		430	9,060	1,963 2,086	_	Apr-10	1,389 895	1,264	2,449	1,195 976		Apr-10		537	680 429	
	May-10 Jun-10		377	11,295 11,824	1,098	_	May-10 Jun-10	895	1,207 965	1,941 2,026			May-10 Jun-10		580 1,048	341	
	Jul-10		744	8,176	1,098	_	Jul-10	858	1,187	1,163			Jul-10	,	1,040	400	
	Aug-10		/44	0,170	1,110	-	Aug-10	000	1,107	1,103	1,100		Aug-10		1,501	400	90
	Sep-10					_	Sep-10						Sep-10				
	Oct-10					-	Oct-10						Oct-10				
	Nov-10					-	Nov-10						Nov-10				
	Dec-10					-	Dec-10						Dec-10				
GENESE	Jan-10	1,307	507	6,615	438	CAPITL	Jan-10	3,858	3,282	1,918	1,988	N.Y.C.	Jan-10	9,721	6,433	4,216	7,305
OLINEOL	Feb-10		599	9,495	497	UNITE	Feb-10	3,189	3,547		2,918	11.1.0.	Feb-10		5,863	4,477	
	Mar-10		427	10,627	589		Mar-10	2,368	3,502				Mar-10		3,891	687	
	Apr-10	,	375		406		Apr-10	2,080	3,213		2,767		Apr-10	,	4,195		7,812
	May-10	1,205	125	10,560	216		May-10	2,950	3,006	2,637	2,513		May-10	13,756	4,206	475	7,048
	Jun-10		58	9,232	111		Jun-10	1,331	2,982	5,023	2,681		Jun-10		2,305	444	6,318
	Jul-10	1,974	214	6,865	266		Jul-10	1,196	3,211	7,480	2,681		Jul-10	15,817	3,690	702	6,084
	Aug-10						Aug-10						Aug-10				
	Sep-10						Sep-10						Sep-10	)			
	Oct-10						Oct-10						Oct-10	)			
	Nov-10						Nov-10						Nov-10				
	Dec-10						Dec-10						Dec-10	)			
NORTH	Jan-10	371	910	8,227	1,944	HUD VL	Jan-10	9,362	1,921	2,611	911	LONGIL	Jan-10	7,706	5,282	946	254
	Feb-10	946	1,438	9,552	1,793		Feb-10	5,602	1,774	2,178			Feb-10	,	3,929	847	591
	Mar-10		1,259	11,701	2,063		Mar-10	1,631	1,015	,	,		Mar-10	,	2,380	592	
	Apr-10		1,245	10,390	2,780		Apr-10	2,073	1,240				Apr-10		1,983		
	May-10		1,082	9,295	2,344		May-10	3,294	344				May-10		1,823	238	110
	Jun-10	715	941	9,413	1,354		Jun-10	5,270	367	1,773	194		Jun-10		2,343	227	114
	Jul-10	590	951	7,019	1,337		Jul-10	4,205	522	2,511	215		Jul-10	7,871	2,946	231	185
	Aug-10						Aug-10						Aug-10				
	Sep-10						Sep-10						Sep-10				
	Oct-10						Oct-10						Oct-10				
	Nov-10						Nov-10						Nov-10				
	Dec-10						Dec-10						Dec-10	)			
CENTRL	Jan-10	768	1,670	7,053	1,452	MILLWD	Jan-10	477	492	1,256	492	NYISO	Jan-10	37,871	23,210	42,846	18,184
	Feb-10		1,556	7,543	1,652		Feb-10	786	472				Feb-10		22,861	44,679	
	Mar-10		1,607	8,467	3,033		Mar-10	397	441	1,052	376		Mar-10	-,	17,119	,	,
	Apr-10		1,476	6,155	1,412		Apr-10	508	387	,			Apr-10		16,345		,
	May-10		1,349	7,105	1,384		May-10	939	286				May-10		14,754		
	Jun-10		1,177	6,296	1,019		Jun-10	1,051	127				Jun-10	1 -	12,690	47,236	
	Jul-10		1,308	5,205	1,294	4	Jul-10	1,878	169	569	104		Jul-10	,	16,523	40,322	14,540
	Aug-10					_	Aug-10						Aug-10				
	Sep-10					_	Sep-10						Sep-10				
	Oct-10					_	Oct-10						Oct-10				
	Nov-10					_	Nov-10						Nov-10				
	Dec-10						Dec-10						Dec-10				1



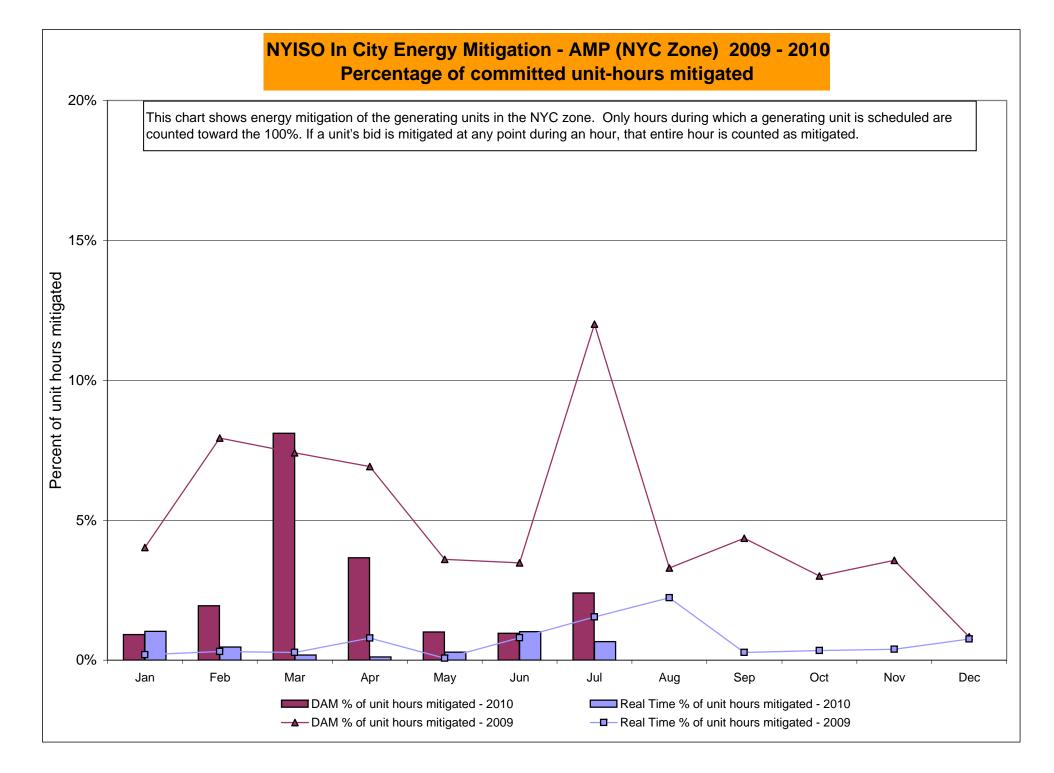
Market Mitigation and Analysis Prepared: 8/4/2010 1:11 PM

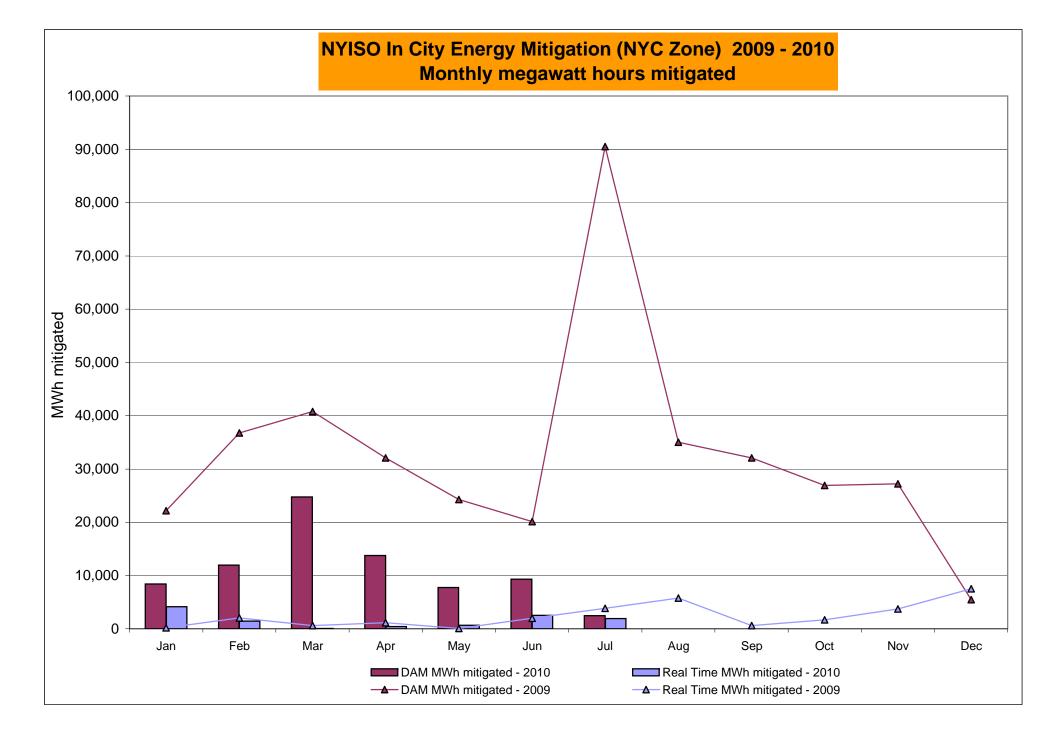


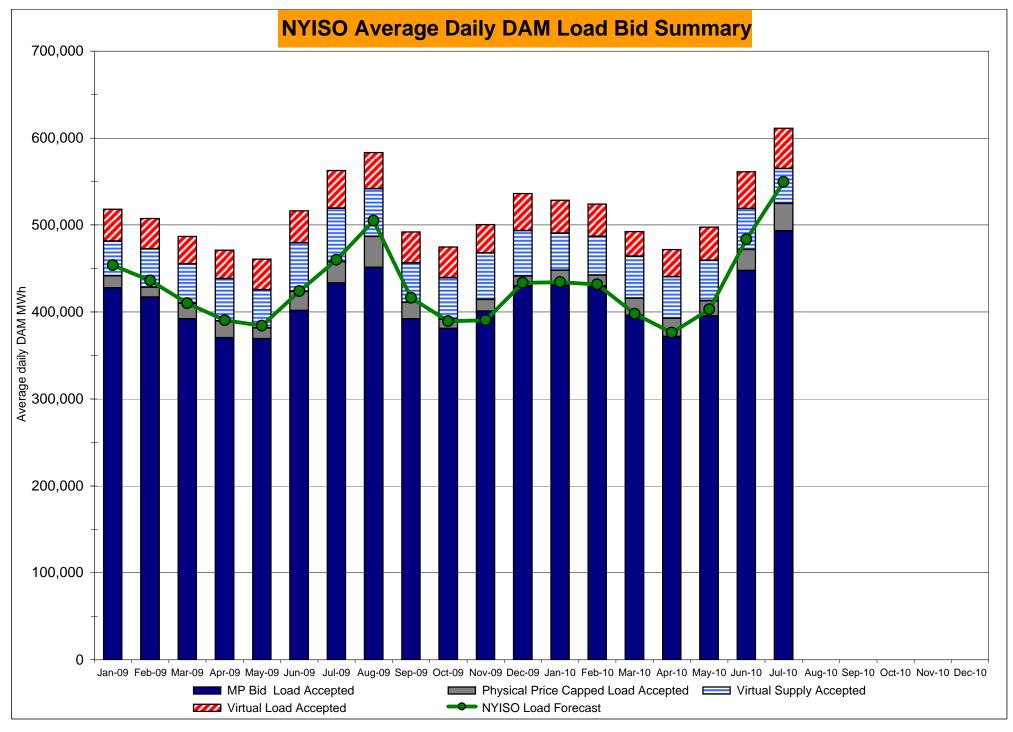




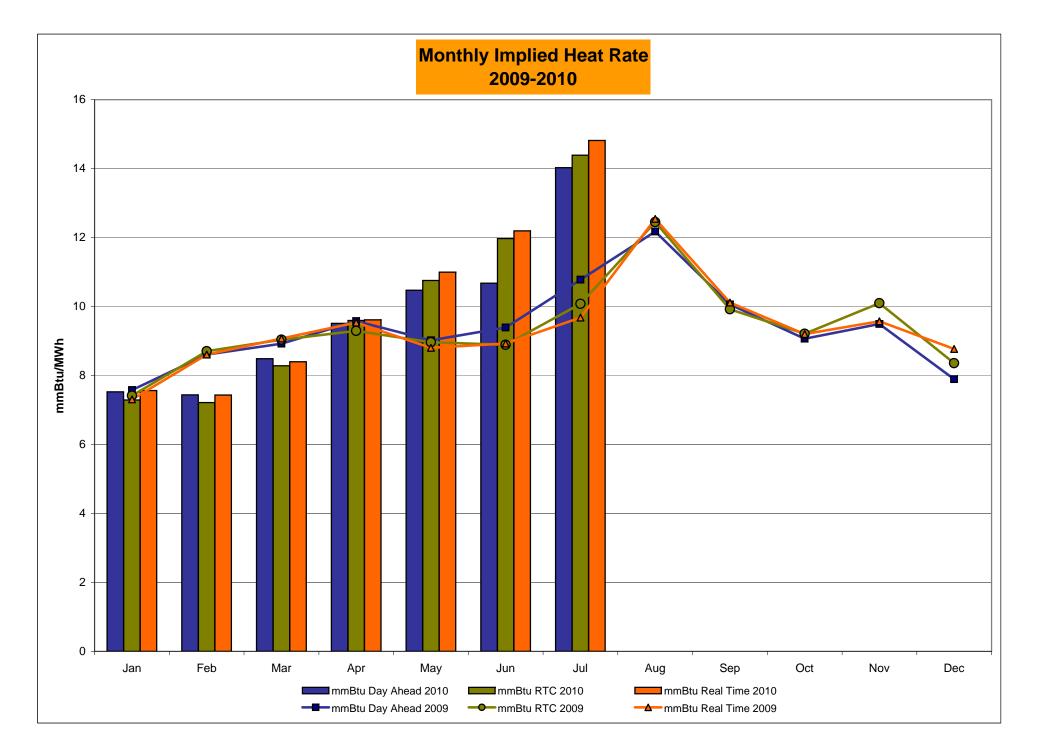
		NYISO	Markets Ar	cillary Ser	vices Stati	<u>stics - Unw</u>	eighted P	rice (\$/MV	<u>VH)</u>			
<u>2010</u>	January	February	March	April	May	June	July	August	September	<u>October</u>	November	December
Day Ahead Market												
10 Min Spin East	4.62	4.51	5.10	7.04	7.59	5.43	6.00					
10 Min Spin West	3.90	3.80	4.02	4.51	4.73	4.27	4.31					
10 Min Non Synch East	2.11	1.42	2.85	1.89	3.04	1.04	3.12					
10 Min Non Synch West	1.49	0.80	1.78	0.74	1.02	0.37	1.65					
30 Min East	0.24	0.18	0.18	0.16	0.12	0.07	0.27					
30 Min West	0.24	0.18	0.18	0.16	0.12	0.07	0.27					
Regulation East	43.21	35.33	33.67	29.28	30.33	30.44	36.44					
Regulation West	43.21	35.33	33.67	29.28	30.33	30.44	36.44					
RTC Market												
10 Min Spin East	5.49	2.42	2.22	3.03	3.86	5.89	3.87					
10 Min Spin West	4.32	1.40	1.66	1.38	1.53	1.19	2.13					
10 Min Non Synch East	0.77	0.37	0.00	0.00	0.39	4.35	2.31					
10 Min Non Synch West	0.05	0.00	0.00	0.00	0.00	0.11	0.69					
30 Min East	0.00	0.00	0.00	0.00	0.00	0.04	0.26					
30 Min West	0.00	0.00	0.00	0.00	0.00	0.03	0.26					
Regulation East	43.11	34.13	34.13	26.86	27.28	27.26	25.32					
Regulation West	43.11	34.13	34.13	26.86	27.28	27.26	25.32					
Real Time Market												
10 Min Spin East	7.67	3.08	2.54	3.31	4.30	6.10	4.71					
10 Min Spin West	6.37	1.78	2.05	2.09	1.73	1.51	2.44					
10 Min Non Synch East	0.83	0.74	0.00	0.00	0.81	4.28	3.05					
10 Min Non Synch West	0.00	0.00	0.00	0.00	0.00	0.12	0.89					
30 Min East	0.00	0.00	0.00	0.00	0.00	0.03	0.33					
30 Min West	0.00	0.00	0.00	0.00	0.00	0.03	0.33					
Regulation East	46.71	35.21	35.26	27.47	27.78	28.03	25.85					
Description Meat	40.74	25.04	25.00	07 47	07 70	00.00	05.05					
Regulation West	46.71	35.21	35.26	27.47	27.78	28.03	25.85					
2009	46.71 <u>January</u>	35.21 <u>February</u>	35.26 <u>March</u>	27.47 <u>April</u>	27.78 <u>May</u>	28.03 <u>June</u>	25.85 <u>July</u>	<u>August</u>	September	<u>October</u>	<u>November</u>	<u>December</u>
2009 Day Ahead Market	<u>January</u>	<u>February</u>	March	<u>April</u>	<u>May</u>	June	July					
2009 Day Ahead Market 10 Min Spin East	<u>January</u> 5.60	<u>February</u> 7.74	<u>March</u> 6.54	<u>April</u> 4.66	<u>May</u> 5.53	<u>June</u> 4.50	<u>July</u> 4.84	3.76	4.54	5.90	3.75	4.38
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West	<u>January</u> 5.60 4.81	<u>February</u> 7.74 5.48	<u>March</u> 6.54 4.62	<u>April</u> 4.66 3.94	<u>May</u> 5.53 4.32	<u>June</u> 4.50 4.05	<u>July</u> 4.84 4.08	3.76 3.25	4.54 3.88	5.90 4.25	3.75 3.41	4.38 3.78
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	<u>January</u> 5.60 4.81 2.77	<u>February</u> 7.74 5.48 3.13	<u>March</u> 6.54 4.62 2.88	<u>April</u> 4.66 3.94 2.09	<u>May</u> 5.53 4.32 3.03	<u>June</u> 4.50 4.05 2.31	<u>July</u> 4.84 4.08 2.86	3.76 3.25 2.56	4.54 3.88 2.42	5.90 4.25 1.74	3.75 3.41 1.66	4.38 3.78 2.16
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	<u>January</u> 5.60 4.81 2.77 2.05	<u>February</u> 7.74 5.48 3.13 1.58	<u>March</u> 6.54 4.62 2.88 1.45	<u>April</u> 4.66 3.94 2.09 1.46	<u>May</u> 5.53 4.32 3.03 1.82	<u>June</u> 4.50 4.05 2.31 1.87	<u>July</u> 4.84 4.08 2.86 2.11	3.76 3.25 2.56 2.05	4.54 3.88 2.42 1.76	5.90 4.25 1.74 0.73	3.75 3.41 1.66 1.38	4.38 3.78 2.16 1.63
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	<u>January</u> 5.60 4.81 2.77 2.05 0.92	February 7.74 5.48 3.13 1.58 1.12	<u>March</u> 6.54 4.62 2.88 1.45 0.63	<u>April</u> 4.66 3.94 2.09 1.46 0.50	<u>May</u> 5.53 4.32 3.03 1.82 0.43	<u>June</u> 4.50 4.05 2.31 1.87 0.43	<u>July</u> 4.84 4.08 2.86 2.11 0.37	3.76 3.25 2.56 2.05 0.30	4.54 3.88 2.42 1.76 0.51	5.90 4.25 1.74 0.73 0.41	3.75 3.41 1.66 1.38 0.39	4.38 3.78 2.16 1.63 0.54
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92	February 7.74 5.48 3.13 1.58 1.12 1.12	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37	3.76 3.25 2.56 2.05 0.30 0.30	4.54 3.88 2.42 1.76 0.51 0.51	5.90 4.25 1.74 0.73 0.41 0.41	3.75 3.41 1.66 1.38 0.39 0.39	4.38 3.78 2.16 1.63 0.54 0.54
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01	February 7.74 5.48 3.13 1.58 1.12 1.12 46.62	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63 48.92	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59	3.76 3.25 2.56 2.05 0.30 0.30 27.55	4.54 3.88 2.42 1.76 0.51 0.51 28.63	5.90 4.25 1.74 0.73 0.41 0.41 35.99	3.75 3.41 1.66 1.38 0.39 0.39 31.80	4.38 3.78 2.16 1.63 0.54 0.54 42.17
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92	February 7.74 5.48 3.13 1.58 1.12 1.12	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37	3.76 3.25 2.56 2.05 0.30 0.30	4.54 3.88 2.42 1.76 0.51 0.51	5.90 4.25 1.74 0.73 0.41 0.41	3.75 3.41 1.66 1.38 0.39 0.39	4.38 3.78 2.16 1.63 0.54 0.54
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01 49.01	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52	4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55	4.54 3.88 2.42 1.76 0.51 0.51 28.63 28.63	5.90 4.25 1.74 0.73 0.41 0.41 35.99 35.99	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation West 10 Min Spin East	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01 49.01 2.27	February 7.74 5.48 3.13 1.58 1.12 1.12 46.62 46.62 46.62	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 38.71	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55 1.68	4.54 3.88 2.42 1.76 0.51 0.51 28.63 28.63 28.63	5.90 4.25 1.74 0.73 0.41 0.41 35.99 35.99 3.38	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17 5.85
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West Regulation West 10 Min Spin East 10 Min Spin West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01 49.01 2.27 2.20	February 7.74 5.48 3.13 1.58 1.12 1.12 46.62 46.62 46.62 1.44 1.35	<u>March</u> 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 38.71 0.97 0.70	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55 1.68 0.57	4.54 3.88 2.42 1.76 0.51 0.51 28.63 28.63 28.63	5.90 4.25 1.74 0.73 0.41 0.41 35.99 35.99 3.38 2.90	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17 5.85 5.24
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation West ERTC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01 49.01 2.27 2.20 0.00	February           7.74           5.48           3.13           1.58           1.12           1.12           46.62           46.62           46.62           1.44           1.35           0.08	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 38.71 0.97 0.70 0.30	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55 1.68 0.57 1.06	4.54 3.88 2.42 1.76 0.51 0.51 28.63 28.63 28.63 0.79 0.71 0.00	5.90 4.25 1.74 0.73 0.41 0.41 35.99 35.99 3.38 2.90 0.00	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17 5.85 5.24 0.00
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation West <b>RTC Market</b> 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 0.92 49.01 49.01 2.27 2.20 0.00 0.00	February 7.74 5.48 3.13 1.58 1.12 1.12 46.62 46.62 46.62 1.44 1.35 0.08 0.04	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ \end{array}$	4.54 3.88 2.42 1.76 0.51 0.51 28.63 28.63 0.79 0.71 0.00 0.00	5.90 4.25 1.74 0.73 0.41 0.41 35.99 35.99 35.99 3.38 2.90 0.00 0.00	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17 5.85 5.24 0.00 0.00
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West <b>RTC Market</b> 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00	February 7.74 5.48 3.13 1.58 1.12 1.12 46.62 46.62 46.62 1.44 1.35 0.08 0.04 0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 $	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00	$\begin{array}{r} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West <b>RTC Market</b> 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           0.08           0.04           0.00           0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00	June 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ 0.79\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 $	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00	$\begin{array}{r} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West ERC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East	January 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           0.08           0.04           0.00           0.00           45.76	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.05 0.00 0.00 0.00 45.90	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.00 33.49	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 0.00 32.80	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ $	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 0.00 36.34	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West <b>RTC Market</b> 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           0.08           0.04           0.00           0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00	June 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ 0.79\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 $	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00	$\begin{array}{r} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West ERC Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East	January 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98 48.98	February           7.74           5.48           3.13           1.58           1.12           1.662           46.62           1.44           1.35           0.08           0.04           0.00           45.76           45.76	March 6.54 4.62 2.88 1.45 0.63 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.05 0.00 0.00 0.00 45.90	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.00 33.49	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 0.00 32.80	June           4.50           4.05           2.31           1.87           0.43           35.37           35.37           0.96           0.91           0.00           0.00           0.00           36.17           36.17	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 3$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 0.00 36.34	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 54.29\end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin East 10 Min Non Synch East 30 Min East 30 Min East 30 Min West Regulation East Regulation West Regulation West	January 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98 48.98 48.98	February           7.74           5.48           3.13           1.58           1.12           1.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           45.76           1.65	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.05 0.00 0.00 45.90 45.90	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 33.49 33.49 1.55	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 0.00 32.80 32.80 32.80	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59 30.59	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55 1.68 0.57 1.06 0.00 0.00 0.00 27.12 27.12 2.26	4.54 3.88 2.42 1.76 0.51 28.63 28.63 28.63 0.79 0.71 0.00 0.00 0.00 0.00 0.00 30.14 30.23	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 0.00 36.34 36.34 2.22	4.38 3.78 2.16 1.63 0.54 0.54 42.17 42.17 5.85 5.24 0.00 0.00 0.00 0.00 0.00 54.29 54.29 7.50
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98 48.98 48.98	February           7.74           5.48           3.13           1.58           1.12           1.12           46.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           45.76           1.65           1.43	March 6.54 4.62 2.88 1.45 0.63 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.05 0.00 0.00 0.00 45.90	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.30 0.10 0.00 33.49 33.49	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 0.00 32.80 32.80 32.80	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59 30.59 30.59	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ $	$\begin{array}{c} 3.75\\ 3.41\\ 1.66\\ 1.38\\ 0.39\\ 0.39\\ 31.80\\ 31.80\\ 31.80\\ 2.58\\ 2.53\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 36.34\\ 36.34\\ 36.34\\ 2.22\\ 1.99\\ \end{array}$	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ \end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 30 Min East 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin Kast 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin Kast 10 Min Spin West 10 Min West 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 0.00	February           7.74           5.48           3.13           1.58           1.12           1.12           46.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           45.76           1.65           1.43           0.22	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.05 0.00 0.00 45.90 45.90 45.90 2.49 2.09 0.10	<u>April</u> 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.00 33.49 33.49 33.49	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 32.80 32.80 32.80 32.80	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 0.00 0.00 30.59 30.59 30.59	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\\ 227.12\\ 2.26\\ 0.48\\ 1.77\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ 0.00 \\ 0.0$	$\begin{array}{c} 3.75\\ 3.41\\ 1.66\\ 1.38\\ 0.39\\ 0.39\\ 31.80\\ 31.80\\ 31.80\\ 2.58\\ 2.53\\ 0.01\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 36.34\\ 36.34\\ 2.22\\ 1.99\\ 0.24\\ \end{array}$	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation West Regulation West Regulation West Regulation West Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98 48.98 48.98	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           1.65           1.43           0.22           0.05	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00 45.90 45.90 45.90 2.49 2.09 0.10 0.05	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.33.49 33.49 33.49 1.55 1.01 0.69 0.19	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 32.80 32.80 32.80 32.80	<u>June</u> 4.50 4.05 2.31 1.87 0.43 0.43 35.37 35.37 0.96 0.91 0.00 0.00 0.00 0.00 0.00 36.17 36.17 2.06 2.02 0.00 0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 30.59 30.59 30.59	3.76 3.25 2.56 2.05 0.30 0.30 27.55 27.55 1.68 0.57 1.06 0.00 0.00 0.00 27.12 27.12 27.12 2.26 0.48 1.77 0.00	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ 0.79\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 30.14\\ 30.23\\ 1.32\\ 1.25\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ 0.00 \\ 0.0$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 36.34 36.34 2.22 1.99 0.24 0.03	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ 0.00\\ $
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min Non Synch West 30 Min Kast 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min Kast 30 Min Kast 3	<u>January</u> 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 0.00	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           1.65           1.43           0.22           0.05           0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00 45.90 45.90 45.90 2.49 2.09 0.10 0.05 0.10 0.05 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 33.49 33.49 1.55 1.01 0.69 0.19 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 32.80 32.80 32.80 1.73 1.70 0.00 0.00 0.00 0.00	June           4.50           4.05           2.31           1.87           0.43           35.37           35.37           0.96           0.91           0.00           0.00           0.00           36.17           2.06           2.02           0.00           0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59 30.59 1.65 1.33 0.31 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\\ 27.12\\ 2.26\\ 0.48\\ 1.77\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ 0.00 \\ 0.$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 36.34 36.34 2.22 1.99 0.24 0.03 0.00	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ 0.00\\$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation West <b>RTC Market</b> 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West	January 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 0.00 48.98 48.98 48.98 48.98 2.57 2.46 0.03 0.03 -	February           7.74           5.48           3.13           1.58           1.12           1.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           1.65           1.43           0.22           0.05           0.00           0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.00 0.00 45.90 45.90 45.90 2.49 2.09 0.10 0.05 0.05 0.00 0.00 0.00 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 0.33.49 33.49 3.49 1.55 1.01 0.69 0.19 0.00 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 32.80 32.80 32.80 32.80 1.73 1.70 0.00 0.00 0.00 0.00 0.00 0.00	June           4.50           4.05           2.31           1.87           0.43           35.37           35.37           0.96           0.91           0.00           0.00           0.00           36.17           36.17           2.06           2.02           0.00           0.00           0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59 30.59 30.59 1.65 1.33 0.31 0.00 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\\ 27.12\\ 27.12\\ 2.26\\ 0.48\\ 1.77\\ 0.00\\ 0.0$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$ $\begin{array}{c} 0.79\\ 0.71\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 30.14\\ 30.23\\ \end{array}$ $\begin{array}{c} 1.32\\ 1.25\\ 0.00\\ $	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ 0.00 \\ 0.0$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 36.34 36.34 36.34 2.22 1.99 0.24 0.03 0.00 0.00 0.00	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ 0.00\\$
2009 Day Ahead Market 10 Min Spin East 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min West Regulation East Regulation West 10 Min Spin East 10 Min Spin West 10 Min Non Synch West 30 Min West Regulation East Regulation East Regulation West Regulation West Regulation West Regulation West 10 Min Spin East 10 Min Spin West 10 Min Spin West 10 Min Spin West 10 Min Non Synch East 10 Min Non Synch West 30 Min East 30 Min East 30 Min East 30 Min Non Synch West 30 Min Kast 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min East 30 Min Kast 30 Min Kast 3	January 5.60 4.81 2.77 2.05 0.92 49.01 49.01 2.27 2.20 0.00 0.00 0.00 0.00 48.98 48.98 48.98 48.98	February           7.74           5.48           3.13           1.58           1.12           46.62           46.62           46.62           1.44           1.35           0.08           0.04           0.00           45.76           1.65           1.43           0.22           0.05           0.00	March 6.54 4.62 2.88 1.45 0.63 0.63 48.92 48.92 2.43 2.09 0.05 0.05 0.05 0.00 45.90 45.90 45.90 2.49 2.09 0.10 0.05 0.10 0.05 0.00	April 4.66 3.94 2.09 1.46 0.50 0.50 38.71 38.71 0.97 0.70 0.30 0.10 0.00 33.49 33.49 1.55 1.01 0.69 0.19 0.00	<u>May</u> 5.53 4.32 3.03 1.82 0.43 0.43 32.52 32.52 1.12 1.10 0.00 0.00 0.00 0.00 32.80 32.80 32.80 1.73 1.70 0.00 0.00 0.00 0.00	June           4.50           4.05           2.31           1.87           0.43           35.37           35.37           0.96           0.91           0.00           0.00           0.00           36.17           2.06           2.02           0.00           0.00	<u>July</u> 4.84 4.08 2.86 2.11 0.37 0.37 29.59 29.59 1.41 1.13 0.27 0.00 0.00 0.00 0.00 30.59 30.59 1.65 1.33 0.31 0.00 0.00	$\begin{array}{c} 3.76\\ 3.25\\ 2.56\\ 2.05\\ 0.30\\ 0.30\\ 27.55\\ 27.55\\ 27.55\\ 1.68\\ 0.57\\ 1.06\\ 0.00\\ 0.00\\ 0.00\\ 27.12\\ 27.12\\ 27.12\\ 27.12\\ 2.26\\ 0.48\\ 1.77\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 4.54\\ 3.88\\ 2.42\\ 1.76\\ 0.51\\ 0.51\\ 28.63\\ 28.63\\ 28.63\\ \end{array}$	$5.90 \\ 4.25 \\ 1.74 \\ 0.73 \\ 0.41 \\ 0.41 \\ 35.99 \\ 35.99 \\ 35.99 \\ 3.38 \\ 2.90 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 36.24 \\ 36.24 \\ 4.01 \\ 3.62 \\ 0.00 \\ 0.$	3.75 3.41 1.66 1.38 0.39 0.39 31.80 31.80 2.58 2.53 0.01 0.00 0.00 0.00 36.34 36.34 2.22 1.99 0.24 0.03 0.00	$\begin{array}{c} 4.38\\ 3.78\\ 2.16\\ 1.63\\ 0.54\\ 0.54\\ 42.17\\ 42.17\\ 42.17\\ 5.85\\ 5.24\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 54.29\\ 54.29\\ 54.29\\ 7.50\\ 7.00\\ 0.00\\$



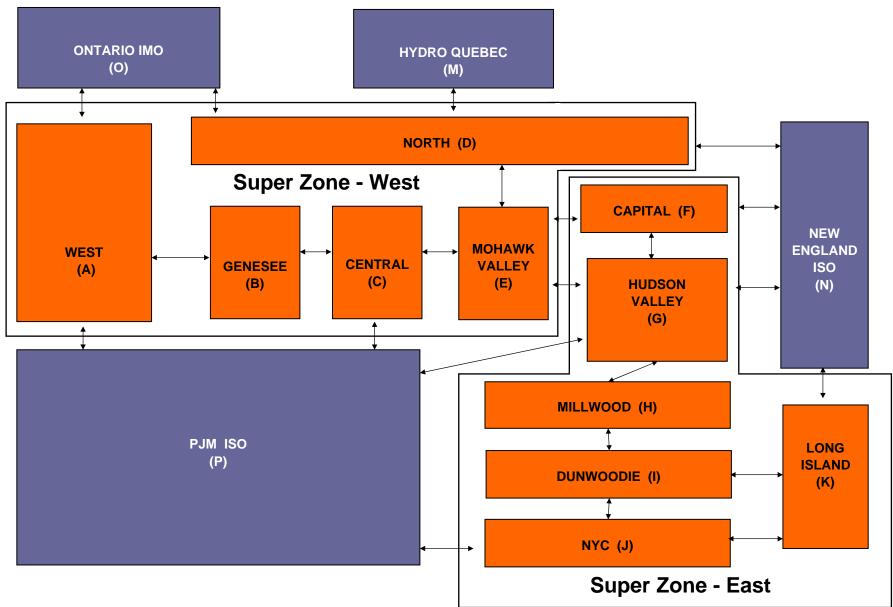




Market Mitigation and Analysis Prepared: 8/4/2010 1:35 PM



# **NYISO LBMP ZONES**



#### Billing Codes for Chart 4-C

Chart 4-C Category Name	Billing Code	Billing Category Name
Bid Production Cost Guarantee Balancing	81203	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81204	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81205	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee Balancing	81208	Balancing NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee Balancing	81209	Balancing NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee Balancing	81213	Balancing NYISO Bid Production Cost Guarantee Expenditure due to Curtailed Imports
Bid Production Cost Guarantee DAM	81201	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81202	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM	81206	DAM NYISO Bid Production Cost Guarantee - Internal Units
Bid Production Cost Guarantee DAM	81207	DAM NYISO Bid Production Cost Guarantee - External Units
Bid Production Cost Guarantee DAM Virtual	81501	DAM Virtual Bid Production Cost Guarantee
DAM Contract Balancing	81315	DAM Contract Balancing
DAM Contract Balancing	81317	DAM Contract Balancing
Local Reliability Balancing	81002	Balancing Local Reliability Bid Production Cost Guarantee
Local Reliability Balancing	83901	Margin Restoration (MOB) Revenue
Local Reliability DAM	81001	DAM Local Reliability Bid Production Cost Guarantee
NYISO Cost of Operations	80901	NYISO Cost Of Operations
NYISO Cost of Operations	80902	NYISO Cost Of Operations
NYISO Cost of Operations	83501	NYISO Cost Of Operations
NYISO Cost of Operations	83502	NYISO Cost Of Operations
Residuals Balancing	81302	Balancing Market Energy Residual
Residuals Balancing	81304	Balancing Market Loss Residual
Residuals Balancing	81305	Balancing Market Congestion Balancing
Residuals Balancing	81306	Emergency Energy Purchases
Residuals Balancing	81307	Emergency Energy Sales
Residuals Balancing	81309	Balancing Market Energy Residual
Residuals Balancing	81311	Balancing Market Loss Residual
Residuals Balancing	81312	Balancing Market Congestion Balancing
Residuals Balancing	81313	Emergency Energy Purchases
Residuals Balancing	81314	Emergency Energy Sales
Residuals DAM	81301	Day Ahead Market Energy Residual
Residuals DAM	81303	Day Ahead Market Loss Residual
Residuals DAM	81308	Day Ahead Market Energy Residual
Residuals DAM	81310	Day Ahead Market Loss Residual

# Operations Performance Metrics Monthly Report





# July 2010 Report

# **Operations & Reliability Department New York Independent System Operator**

Prepared by NYISO Operations Analysis and Services, based on settlements initial invoice data obtained on or before August 8.



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## Market Performance Metrics

- RTM Congestion Residuals Monthly Trend
- RTM Congestion Residuals Daily Costs
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- DAM Congestion Residuals Monthly Trend
- DAM Congestion Residuals Daily Costs
- DAM Congestion Residuals Cost Categories
- NYCA Unit Uplift Components Monthly Trend
- NYCA Unit Uplift Components Daily Costs

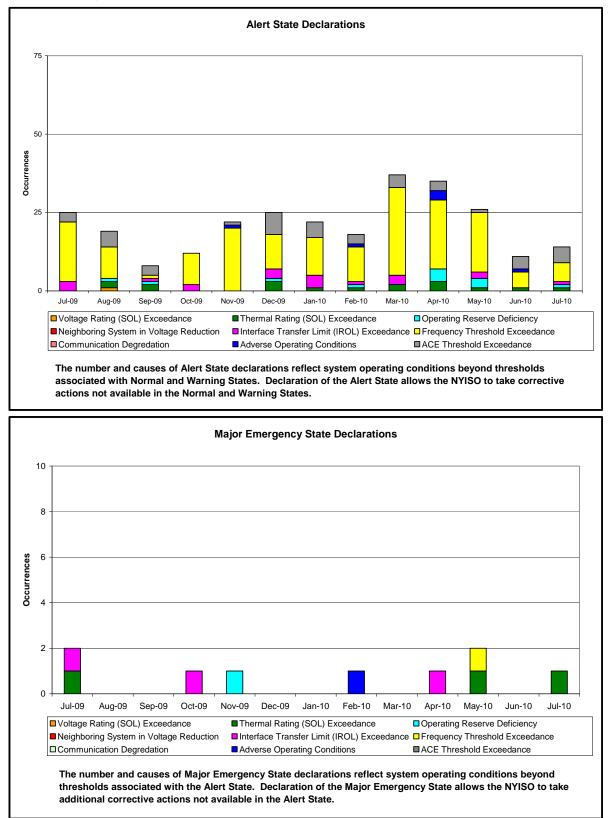


# July 2010 Operations Performance Highlights

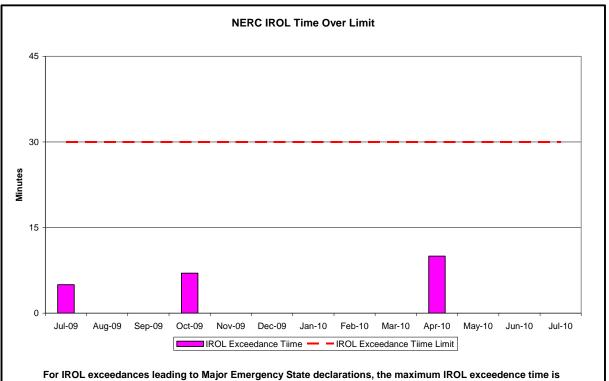
- High loads due to hot weather during week of July 4
- Four consecutive days with peak load exceeding 30,000 MW
- Peak load of 33,452 MW occurred on July 6 for hour beginning 16
- Activated Special Case Resources and Emergency Demand Response Program for Zone J on July 6, 13:00-19:00 and July 7, 13:00-19:00 to maintain Sprainbrook 345kV voltage.
- UPNY/ConEd interface transfers were limited in real-time on July 6 and 7 to maintain Sprainbrook 345kV voltage.
- Clockwise Lake Erie circulation values remain low. TLR Level 3 declared for 10 hours.
- Lake Erie circulation report now includes Day-Ahead Market On/Off Peak modeled values
- High Hour-Ahead load forecast error resulted from software issue
- Beck-Niagara outages are scheduled for Fall 2010. Expected to begin in November with **five** week duration, not contiguous.



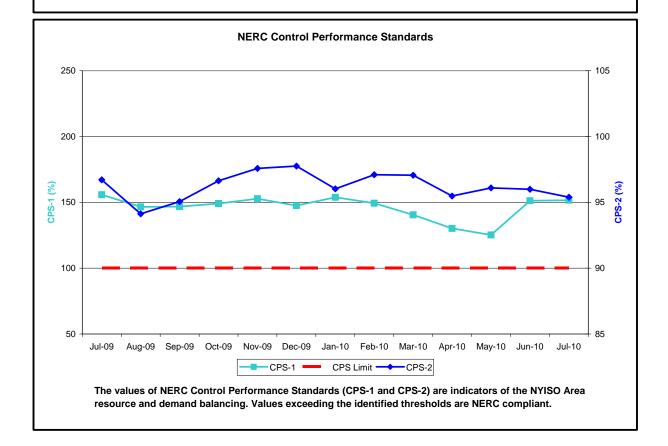
## **Reliability Performance Metrics**



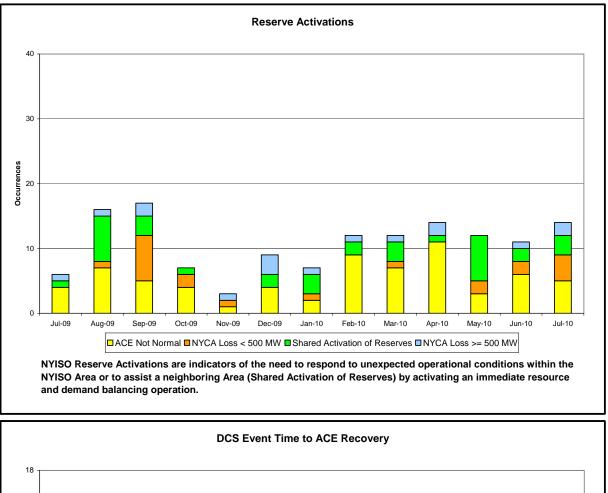


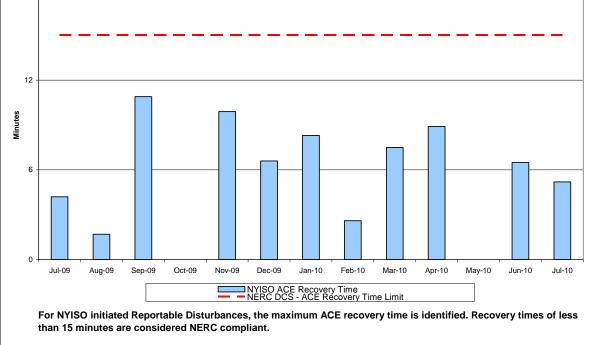


identified. IROL exceedances of less than thirty minutes are considered NERC compliant.

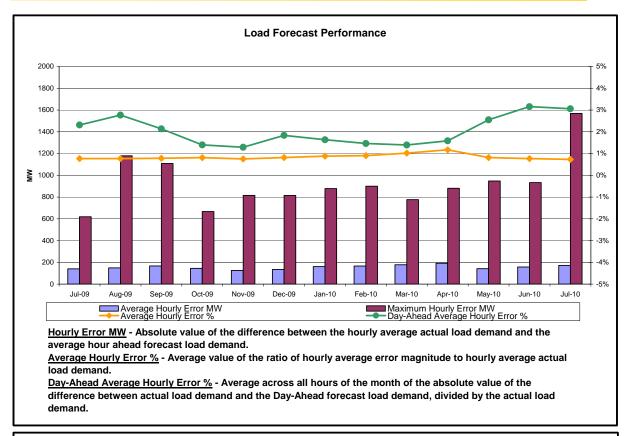


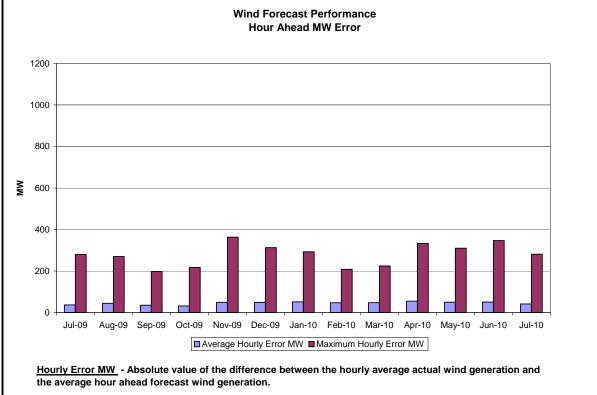




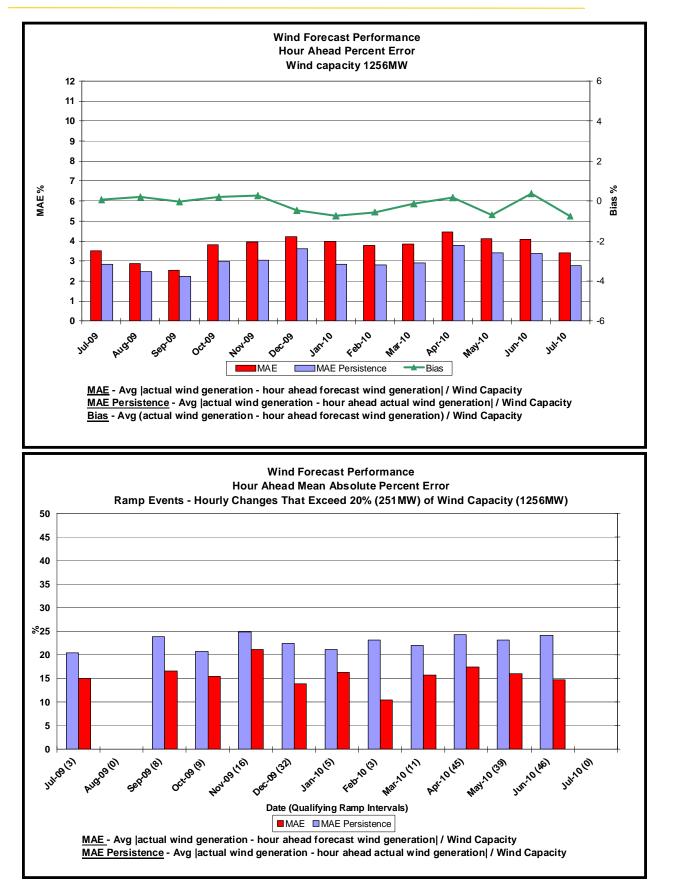




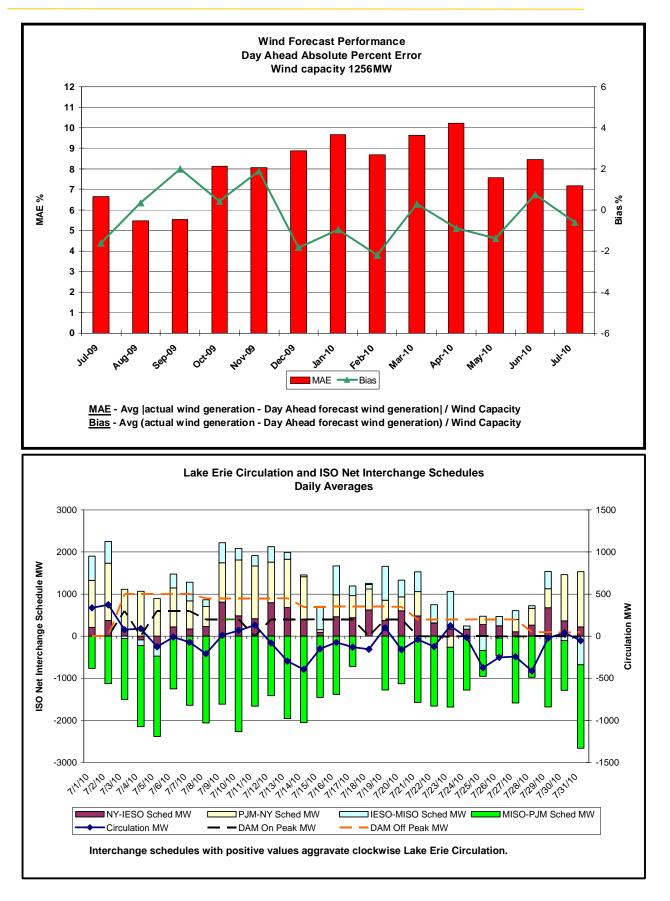








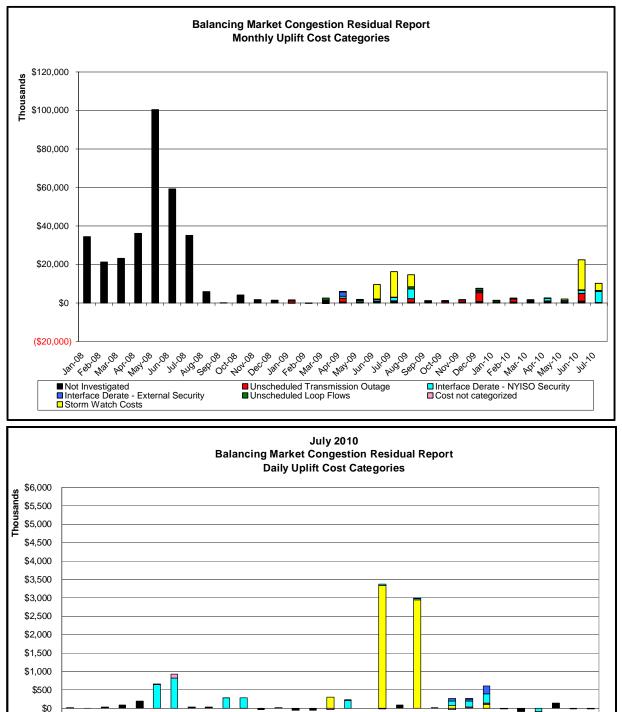






(\$500)

## **Market Performance Metrics**





			, 16, 17,19, 21, 23, 24, 25, 28
Event	Date (yyyym		Description
	7/6/2010	15	NYCA DNI Ramp Limit
	7/6/2010	14-15	Derate Dunwoodie-Shore Road 345kV (#Y50)
	7/6/2010	16-17	Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o Sprainbrook-East Garden City 345kV (#Y49)
	7/6/2010		Derate GowanusN-Greenwood 138kV (#42231)
	7/6/2010		Derate Mott Haven-Dunwoodie 345kV (#71)
	7/6/2010		Derate UPNY/ConEd for down state voltage profile
	7/6/2010		Derate Vernon/Greenwood
-	7/7/2010		Derate Vernon/Greenwood
	7/7/2010		Derate Mott Haven-Dunwoodie 345kV (#71)
	7/7/2010		NYCA DNI Ramp Limit
-	7/7/2010		Derate GowanusN-Greenwood 138kV (#42231)
-			Derate GowanusN-Greenwood 136kV (#42231) Derate GowanusS-Greenwood 138kV (#42232)
	7/7/2010		
	7/7/2010		Derate Pleasant Valley-Leeds 345kV(#92) for I/o Athens-Pleasant Valley 345kV (#91)
	7/7/2010		Derate UPNY/ConEd for down state voltage profile
_	7/10/2010		Derate Dunwoodie-Shore Road 345kV (#Y50) for I/o Sprainbrook-East Garden City 345kV (#Y49)
	7/10/2010		Derate Greenwood/Staten Island, Gowanus S PAR (#R14) for TWR:Goethals 22,21,A2253
	7/11/2010		Derate Greenwood/Staten Island, Gowanus S PAR (#R14) for TWR:Goethals 22,21,A2253
	7/16/2010		Thunder Storm Alert
	7/17/2010		NYCA DNI Ramp Limit
	7/17/2010		Derate Dunwoodie-Shore Road 345kV (#Y50)
	7/17/2010		Derate GowanusN-Greenwood 138kV (#42231)
	7/17/2010	0, 14, 18, 21, 23	Derate GowanusS-Greenwood 138kV (#42232)
			Derate Greenwood/Staten Island, Greenwood-Kent Ave 138kV (#31232-2), Freshkills-Willowbrook
	7/17/2010	0, 18-21, 23	138kV (#29211), GowanusN-Greenwood 138kV (#42231), GowanusS-Greenwood 138kV (#42232)
	7/17/2010		NE DNI Ramp Limit
	7/19/2010		Thunder Storm Alert
	7/19/2010		Derate Greenwood/Staten Island, Rainey-Vernon 138kV (#36312) for TWR:Goethals 22,21,A2253
	7/21/2010		Thunder Storm Alert
	1/21/2010	10 21	Derate Greenwood/Staten Island, Greenwood-Vernon 138kV (#31231, #31232) for TWR:Goethals
	7/21/2010	22	22.21,A2253
	7/21/2010		NE DNI Ramp Limit
	7/23/2010		Thunder Storm Alert
	7/23/2010		NYCA DNI Ramp Limit
-	7/23/2010	20, 22-23	Derate Greenwood/Staten Island, GowanusS-Greenwood 138kV (#42232), Greenwood-Vernon 138kV
	7/00/0040	40.00	
	7/23/2010		(#31231, #31232) for TWR:Goethals 22,21,A2253
	7/23/2010		HQ-NY Scheduling Limit
	7/24/2010		Forced outage, Northport-Pilgrim 138kV (#679)
	7/24/2010		NYCA DNI Ramp Limit
	7/24/2010		Derate Greenwood/Staten Island, Gowanus-Greenwood 138kV (#42231, #42232)
	7/24/2010		Derate Pleasant Valley-Leeds 345kV(#92) for I/o Athens-Pleasant Valley 345kV (#91)
	7/24/2010		HQ-NY Scheduling Limit
	7/24/2010		NE-NY Scheduling Limit
	7/25/2010		Thunder Storm Alert
	7/25/2010	0	Forced outage, Northport-Pilgrim 138kV (#679)
	7/25/2010		NYCA DNI Ramp Limit
	7/25/2010	1-2, 11, 15	Derate GowanusN-Greenwood 138kV (#42231)
	7/25/2010		Derate GowanusS-Greenwood 138kV (#42232)
	7/25/2010	16	Derate Greenwood-Kent Ave 138kV (#31232-2) for I/o E179th St-Hellgate 138kV (#15055)
	7/25/2010		Derate Greenwood-Kent Ave 138kV (#31232-2) for TWR:Goethals 22,21,A2253
	7/25/2010		Derate Greenwood/Staten Island, GowanusN-Greenwood 138kV (#42231)
	7/25/2010		Derate Pleasant Valley-Leeds 345kV(#92) for I/o Athens-Pleasant Valley 345kV (#91)
	7/25/2010		Derate Rainey-Vernon 138kV (#36312)
	7/25/2010		HQ-NY Scheduling Limit
-			HQ DNI Ramp Limit
-	7/25/2010		
	7/25/2010		NE-NY Scheduling Limit
	7/28/2010 7/28/2010		Uprate Freshkills-Willow Brook 138kV (#29212) Uprate Sprainbrook-East Garden City 345kV (#Y49)

#### Day's investigated in July: 6, 7, 10, 11, 16, 17, 19, 21, 23, 24, 25, 28

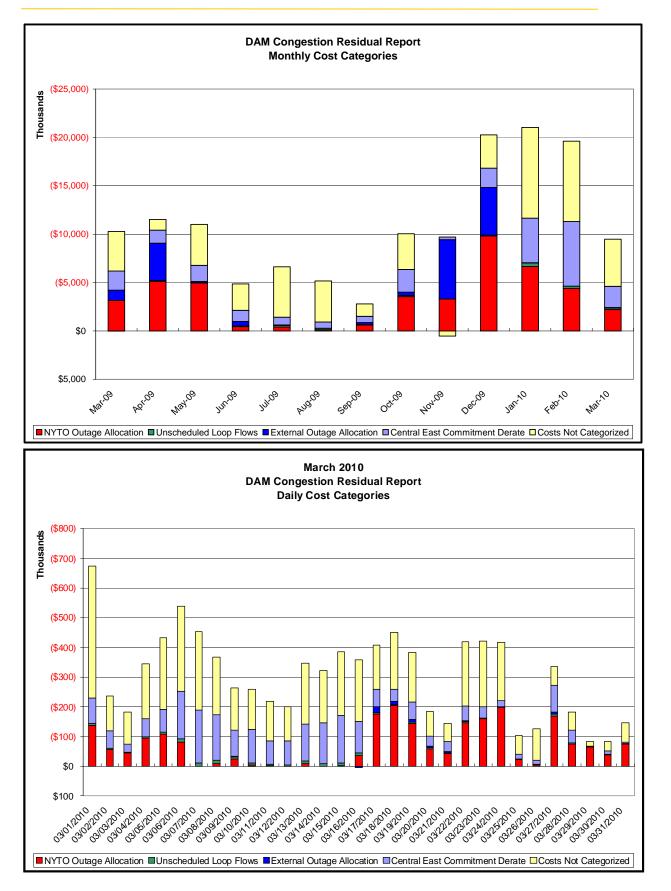


#### Real-Time Balancing Market Congestion Residual (Uplift Cost) Categories

<u>Category</u> Storm Watch	<u>Cost Assignment</u> Zone J	<u>Events Types</u> Thunderstorm Alert (TSA)	<u>Event Examples</u> TSA Activations
Unscheduled Transmission Outage	Market-wide	Reduction in DAM to RTM transfers related to unscheduled transmission outage	Forced Line Outage, Unit AVR Outages
Interface Derate - NYISO Security	Market-wide	Reduction in DAM to RTM transfers not related to transmission outage	Interface Derates due to RTM voltages
Interface Derate - External Security	Market-wide	Reduction in DAM to RTM transfers related to External Control Area Security Events	TLR Events, External Transaction Curtailments
Unscheduled Loop Flows	Market-wide	Changes in DAM to RTM unscheduled loop flows impacting NYISO Interface transmission constraints	DAM to RTM Clockwise Lake Erie Loop Flows greater than 300MW
Monthly Balancing Market Congestion	n Report Assumption	ns/Notes	
<ol> <li>Storm Watch Costs are identified as daily</li> <li>At a minimum those days with \$100 K/HR</li> </ol>	'	y or more, or surplus of \$ <mark>100</mark> K/Day or more are	investigated

3) Uplift costs associated with multiple event types are apportioned equally by hour
 4) Investigations began with Dec 2008. Prior months are reported as Not Investigated.



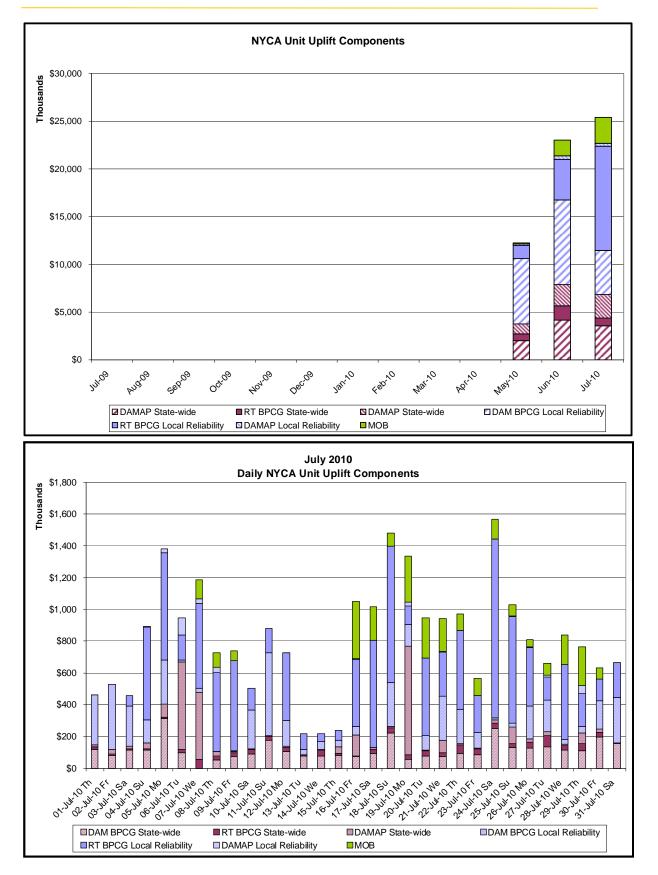


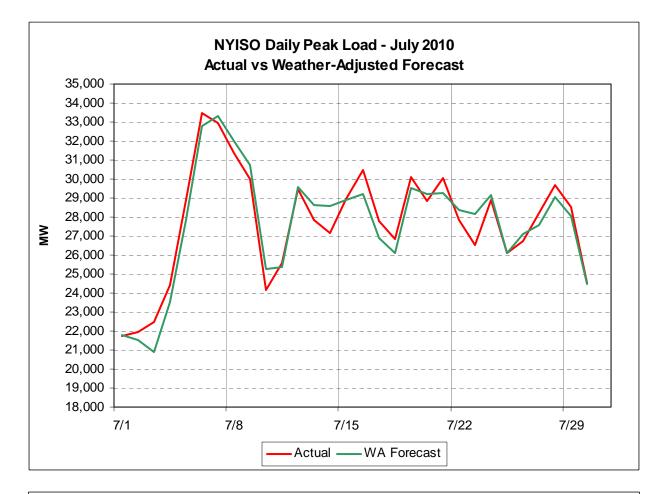


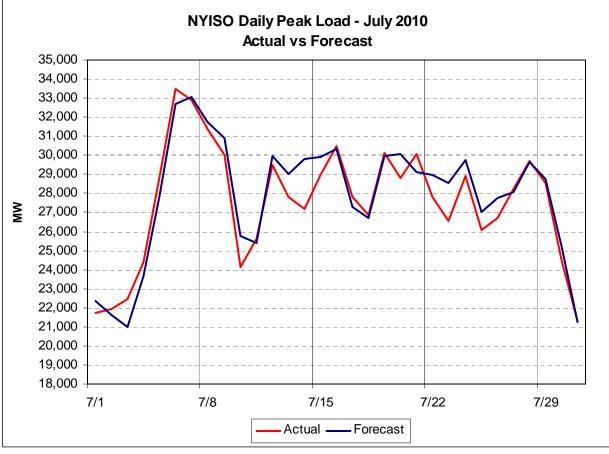
#### Day-Ahead Market Congestion Residual Categories

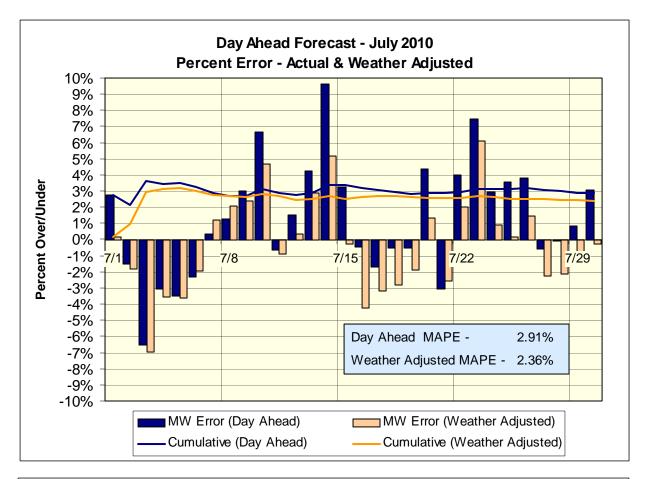
<u>Category</u> NYTO Outage Allocation	<u>Cost Assignment</u> Responsible TO	<u>Events Types</u> Direct allocation to NYTO's responsible for transmission equipment status change.	Event Examples DAM scheduled outage for equipment modeled in- service for the TCC Auction.
Unscheduled Loop Flows	All TO by Monthly Allocation Factor	Residual impact of Lake Erie circulation, MW difference between the DAM and TCC Auction.	Lake Erie Loop Flow Assumptions
External Outage Allocation	All TO by Monthly Allocation Factor	Direct allocation to transmission equipment status change caused by change in status of external equipment.	Tie line required out-of- service by TO of neighboring control area.
Central East Commitment	Derate All TO by Monthly Allocation Factor	Reductions in the DAM Central East_VC limit as compared to the TCC Auction limit, which are not associated with transmission line outages.	

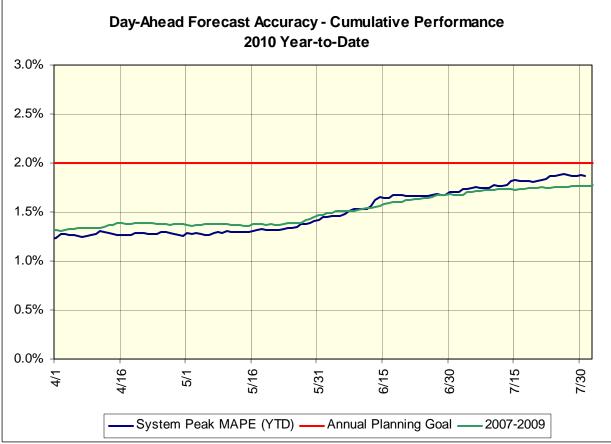














#### Description

Auxiliary Market Produc	ts
Demand Curve Reset	<b>Status:</b> NERA is the consultant performing the demand curve study. This is an ongoing process with many stakeholder discussions planned throughout 2010. NERA is proposing to use the same econometric model for Energy and Ancillary Service revenue as the previous study.
	<b>Deliverables:</b> Per the Market Services Tariff, the NYISO will be developing new sets of demand curves for the capacity market in 2010, with a requirement to file the new curves with FERC by 11/30/2010.
	<b>Status:</b> Phase 1 was successfully deployed in the 4 <sup>th</sup> quarter of 2009 and Phase 2 was completed in March 2010. The remainder of the work is scheduled for 2010. The Market Participant User Interface was successfully deployed in June and the final phase is scheduled to be software ready at the end of the 4 <sup>th</sup> quarter.
Demand Response Information System	<b>Deliverables:</b> The Demand Response Information System project is a multi-year project to automate the current core functionality of Registration Processing, Event Notification, and Reporting, as well as the ICAP/SCR Processing and the Event Performance, Management and Settlement Preparation calculations. The project also includes new functionality in Event and Meter Data Management and Marketplace functions.
ICAP Import Rights Modeling-Capabilities for New Interfaces	<ul> <li>Status: These software enhancements to the existing ICAP automated system were successfully deployed in March. This project is complete.</li> <li>Deliverables: This project would implement new capability to model external locations to the sub zone level to support any new interfaces including, HQEX, HQ-Cedars, NPX-AC, NPX-CSC, OH-AC, PJM-AC, and PJM-Neptune. Specifically, the project will address: <ul> <li>Multiple import rights models at each physical interface</li> <li>Specific modeling to treat Unforced Capacity Deliverability Rights (UDRs)</li> <li>Additional flexibility to model and track wheel-throughs</li> <li>Apportioning of CRIS and ERIS for exports</li> <li>Monthly adjustment in import limits to account for deliverability rules</li> <li>Support of buyer-side mitigation as necessary</li> </ul> </li> </ul>
Demand Response Aggregations in DSASP	<ul> <li>Status: Discussions are currently underway with the expectation that market rule changes will be minimal if aggregations are treated in the same manner as individual DSASP resources. Through the course of working group discussions and 2010 Sector Meetings, Market Participants have specifically requested the NYISO to delay proposing a market design until telemetry alternatives can be identified, reviewed and discussed with Market Participants. The Market Design is scheduled to be proposed in the 4<sup>th</sup> quarter.</li> <li>Deliverables: Based on the NYISO's response to FERC Order 719, NYISO will be investigating the changes needed to</li> </ul>
	accommodate aggregated small demand response resources providing ancillary services (DSASP). The current DSASP program allows individual resource participation through a TO; this project would allow multiple demand response resources to participate in DSASP by providing an aggregate signal through a TO to the NYISO. The primary effort



J Milestone Delive

Description	Status and Milestone Deliverables
	involves discussions with NPCC and the NYSRC on any potential rule changes in their areas.
	<b>Status</b> , Implementation of the optimum enhancements is school and for 2 <sup>rd</sup> quester 2010
	<b>Status:</b> Implementation of the software enhancements is scheduled for 3 <sup>rd</sup> quarter 2010.
	<b>Deliverables:</b> On the basis of FERC's June 23, 2009 ruling and NYISO's filing on External CRIS Rights due October 2009, there will be additional modifications to the ICAP AMS to implement the rules associated with External CRIS Rights, specifically:
	• Identifying external suppliers, bilateral contracts, and commitments to offer market capacity associated with Long-Term External CRIS Rights
Final Deliverability Rules	<ul> <li>Tracking the duration of rights awards and specific months when offers are required</li> </ul>
	<ul> <li>Imposition of an offer cap (\$/kW-mo); creating and modifying the values associated with the cap</li> </ul>
	<ul> <li>Tracking of offer behavior, and identification of situations where an entity with Long-Term External CRIS Rights is in violation of its commitment</li> </ul>
	<ul> <li>Renewal of Long-Term External CRIS Rights</li> </ul>
	<ul> <li>Transfer of rights to another entity; ability to allow partial MW transfer of rights</li> </ul>
	<ul> <li>Compatibility with existing import rights process for short-term imports</li> </ul>
	<b>Status:</b> The NYISO and its stakeholders will jointly develop the rationale for creating additional capacity zones, which was a recommendation in the 2008 State of the Market report. The Market Design Concept is scheduled for completion in the 4 <sup>th</sup> quarter 2010.
Criteria for New Capacity Zones	<b>Deliverables:</b> Significant modification of the existing code design will be required to provide the flexibility to accommodate the creation and deletion of new capacity zones. Another area that will be addressed is the modeling of imports; all imports are currently modeled into the ROS region, but there will be situations where imports from one external control area will enter multiple NYISO capacity zones.
Capability Period Alignment	<b>Status:</b> The NYISO will work with its stakeholders to develop a Market Design Concept by the end of the 2 <sup>nd</sup> quarter. The Market Design Concept was discussed at a June ICAP working group meeting.
	<b>Deliverables:</b> The NYISO's Capacity Market Capability Year runs from May through the following April; both ISO-NE's and PJM's capability years begin in June. The misalignment of capability years creates issues for suppliers importing capacity into NY from PJM or ISO-NE for use in the NYISO's strip auction, and also impacts NY LSE IRM/locality requirements. This project will consider the extent of market rule changes, software changes and potential operations procedure changes that would be required to align NY's capability year with those of PJM and ISO-NE.



#### Description

Business Intelligence Products		
E-Tariff	<b>Status:</b> NYISO partnered with ISO-NE, PJM and SPP to contract with a vendor to develop the software needed for FERC compliance. NYISO is scheduled to be software ready in the 2 <sup>nd</sup> quarter and awaiting confirmation of FERC concurrence with NYISO's proposed timing for an initial baseline filing. The vendor software has been installed and is running in a production environment; NYISO successfully filed its baseline filing at FERC on June 30. This project is complete.	
	<b>Deliverables:</b> This is a project to comply with FERC Order 714 by April 1, 2010. The NYISO must implement a system to electronically manage the submission of all tariff filings with FERC, using a FERC mandated XML format. This project will also involve the migration of both NYISO tariffs from a page-based format to a record-based format and will culminate in an initial baseline filing for each of the two tariffs.	
	<b>Status:</b> NYISO is scheduled to implement the new E-Room for Planning by the end of the 2 <sup>nd</sup> quarter 2010. This project was successfully delivered in June.	
E-Planning Collaboration	<b>Deliverables:</b> The interactive collaboration provided by NYISO today for planning studies uses a combination of email, burned CDs and posting to a secured area of the NYISO website. This is difficult to administer and does not provide the robust functionality desired. This project would provide for a new collaborative environment through the use of Microsoft SharePoint.	
	<b>Status:</b> The NYISO is currently evaluating the most economic and efficient means of obtaining access to this data. Access to this data is scheduled for delivery in 4 <sup>th</sup> quarter 2010.	
Non-NYISO Transactions Data Access	<b>Deliverables:</b> This data is currently gathered manually on an ad-hoc basis. This project would focus on providing access to data from surrounding control areas to NYISO's Market Mitigation and Analysis Unit. The project will also provide access to the tools necessary to analyze this data.	
	Status: This project is scheduled for delivery in September 2010.	
Intranet Redesign	<b>Deliverables:</b> The NYISO has not updated the technological platform or the design of the NYISO Intranet since its inception. This is an internal NYISO project with the purpose of moving the site, which currently exists on outdated technology, to a new technological platform for the benefit of content publishing, ease of navigation and maintenance.	



Description

#### 2010 Major Product Enhancements

	<b>Status:</b> Web Postings refers to a series of Tibco Business Works processes that generate and publish various CSV, PDF, and HTML files to NYISO's OASIS site ( <u>http://mis.nyiso.com/public</u> ). These files include zonal and generator pricing data for the Real-Time, Hour-Ahead, and Day-Ahead markets, outage data, interface limits & flows, PAR schedules & flows, actual load and load forecasts, various reports, and other publicly available data used by our Market Participants. There are over 40 postings in total that publish to the site throughout the day. Phase I is scheduled for deployment in 4 <sup>th</sup> quarter of 2010.
Web Posting Enhancements	<ul> <li>Deliverables: The Web Posting Enhancement project is a multi-year project with phased deliverables to address the following objectives:</li> <li>Improve reliability and performance of the web posting process</li> </ul>
	<ul> <li>Eliminate dependency on proprietary Tibco technology for Postings</li> <li>Ensure pricing data quality across NYISO systems with authoritative transactional source for prices and price versions</li> <li>Improve reliability and greatly simplify DSS price data integration</li> <li>Address NAESB WEQ-002 posting technical requirements</li> </ul>
Energy Markets Produce	cts
Long Term Loop Flow Response-Buy	<b>Status:</b> As a result of the events leading to the 2008 Lake Erie loop flow issues, in 2009 the NYISO, PJM, ISO-NE and MISO identified solutions to the costs imposed on the non scheduling RTO.
Through Congestion	<b>Deliverables:</b> This project will focus on designing software and rules in conjunction with neighboring control areas to mitigate the effect of loop flows on our systems.
Congestion Management Market Flow Calculator	<b>Status:</b> In late-2006, PJM approached NYISO, interested in developing a program to allow inter-control area dispatch to help manage congestion. PJM has implemented a program with MISO and is currently in the early stages of designing such a program with SPP. In 2007, NYISO initiated discussions with PJM to further understand the MISO program and begin to outline a conceptual straw proposal for a similar program between PJM and NY. NYISO has continued to define the details of a Congestion Management protocol between NYISO and PJM. In 2009, NYISO worked with PJM and NYISO stakeholders to develop a Congestion Management protocol.
	<b>Deliverables:</b> Before this protocol can be implemented, automated software to calculate the market flow between PJM and NY must be created. In 2010 NYISO will evaluate whether to build or buy software to implement this calculator. Once implemented, NYISO will analyze flows to determine with PJM and NYISO stakeholders the proper basis for compensation.



#### Description

Interregional Transaction Coordination	<b>Status:</b> Currently, energy transactions between the NYCA and other control areas are evaluated economically once for the hour.
Phase 1-HQ on Dispatch	<b>Deliverables:</b> This project will focus on instituting an intra-hour economic evaluation and scheduling of transactions with neighboring control areas, starting with the HQCA.
	Status: Currently ancillary services are procured from internal resources only.
Interregional Transaction Coordination Phase 2-Ancillary Services	<b>Deliverables:</b> This project will focus on designing a method to economically evaluate and schedule the reserve and regulation products from neighboring control areas, starting with the HQCA.
Increasing Bids in RT	<b>Status:</b> Currently generators with accepted Day Ahead bids are prohibited from increasing the accepted portion of their bids in the Real Time markets. Circumstances can arise, such as fuel outages or restrictions, which cause the accepted DA bids to no longer be representative of the units' actual costs. This project is scheduled for deployment in September.
	Deliverables: This project will allow these resources to represent their new costs in Real Time.
Scheduling & Pricing Phase 4 – Modify Transaction Default Settings	<b>Status:</b> Currently Day Ahead scheduled transactions are carried over into the Real Time market as price takers to insure prioritization, their prices are set to the bid floors. Curtailments of these transactions in Real Time can then lead to an arbitrary price of -\$999.70. This can lead to significant balancing residuals. The required software changes were successfully deployed in March. This project is complete.
Transaction Default Settings	<b>Deliverables:</b> This project will evaluate the feasibility and appropriateness of modifying this default value and implement this new value.
Finance Products	
	<b>Status:</b> In 2009, the project delivered functionality for the TCC Market, Credit Infrastructure, Virtual Transactions Market and ICAP Market. In 2010, the project is planned to provide the functionality required to support the (1) Energy and Ancillary Services Market, (2) 2 year TCCs and (3) Market Participant User Interface. Energy, Ancillary Services and 2 year TCCs were successfully deployed in June.
Credit Management System	<b>Deliverables:</b> Streamline, automate, and integrate the credit management processes through a Credit Management System (CMS) to make the processes more efficient and auditable. The end state vision for this multi-year project is an automated and integrated CMS that provides a real time credit position and settlement results netted across all markets. NYISO and MPs will be able to manage collateral as a portfolio and make business decisions using analytical tools and information through a user interface. In addition, the NYISO will be able to leverage automation to implement credit requirements that are better matched to market risk.



#### Description

Infrastructure Products	
	<b>Status:</b> This project continues the roadmap initiated with a 2009 project that enabled support for Microsoft-based applications for market participants.
Identity and Access Management	<b>Deliverables:</b> This multi-year project will deliver a foundation for enterprise-wide identity and access management to achieve compliance. Technical controls and workflows will manage employee user identities and access rights to widely used critical cyber assets defined by NERC CIP. The solution will provide reporting and visibility to current access entitlements and immediate revocation of rights on employee exit.
Data Warehouse Platform Evolution	<b>Status:</b> With data intensive initiatives, NYISO requires a high performance scalable cost effective data warehouse platform. The Netezza data warehouse appliance will allow NYISO IT to deliver business intelligence projects faster, greatly increase reporting performance and make data available sooner for reporting.
	<b>Deliverables:</b> NYISO will migrate the existing datamarts to the new platform in 2010 to achieve business and technical benefits for current and planned DSS development efforts.
Shared Governance Voting Software	<b>Status:</b> The ISO Agreement requires that the NYISO facilitate a voting process as defined in the Agreement. This voting process is currently conducted via a laptop spreadsheet program (Lotus 1-2-3), which was developed at the inception of the NYISO. The existing voting program presents some risk to the NYISO as it based upon unsupported software and has no provisions for change management. This project was delivered on time in March. This project is complete.
	<b>Deliverables:</b> This project will replace the existing software with a more robust and reliable application. The new application will provide flexibility to adapt to potential changes in the future, while also providing a reliable and supportable platform.
Operations and Reliabili	ty Products
	<b>Status:</b> This is a continuation of a multi-phased project focusing on the next generation of the Reference Level Software. In 2009 NYISO developed detailed requirements and a design. Implementation is scheduled for September 2010.
Reference Level Software	<b>Deliverables:</b> 2010 will focus on building and implementing the new Reference Level Software, as well as implementing required changes in other existing NYISO applications, e.g. MIS. It is critical that the NYISO continue to address several identified issues with the calculation and management of the reference price process, and to automate several manual processes related to the reference price process. NYISO will also certify that the reference level calculations are in compliance with required tariffs through an independent validation of application results. The certification will be completed prior to deploying the Reference Level Software to production.



**Description** 

#### 2010 Major Product Enhancements

**Status and Milestone Deliverables** 

Wind Management Evolution – Meteorological Data Submission	<b>Status:</b> As more generation from wind resources is added to the system, it becomes increasingly important for NYISO to have strong tools at its disposal to manage these resources in a reliable manner. The NYISO has begun achieving that goal by implementing an intelligent wind power forecasting program, and a process to dispatch wind resources using an economic evaluation. Additionally, NYISO conducted a study assessing the implications of large wind integration in New York, including the impacts on market rules, grid reliability, system cost, and ancillary services. This project was deployed in June.
	<b>Deliverables:</b> This project will continue expanding NYISO's ability to effectively and reliably manage wind power integration into the NY Bulk Power Grid by providing NYISO operations with tools to enhance their ability to see significant wind ramp events before they occur through the enhanced collection of meteorological data from each wind resource.
Outage Scheduler Phase III	<b>Status:</b> Transmission and generator outage information is submitted to the NYISO by telephone, email, and/or fax. NYISO scheduling staff then approves or disapproves the outage request and manually enters the information into a proprietary database that exists outside of the Ranger operating environment. This proprietary database is used to produce required operating and market facing outage schedule reports. Phase 1 was successfully deployed in January 2009. Phase 2 was deployed in October 2009 and included integration with Ranger and automation of external interfaces. Phase 3 is scheduled for 2010.
	<b>Deliverables:</b> This multi-phased project includes the replacement of the proprietary database, as well as automation of the manual processes to enter, manage and track outage information. This project also includes the automation and integration with Ranger, and the implementation of user-friendly web interfaces for TOs and Generators to submit outage requests and forced outage data.

#### Planning and TCC Market Product Enhancements

**Status:** NYISO has engaged stakeholders in discussions regarding desired functionality in the end state. Specifically, the following functionality will be addressed as part of Phase 1:

TCC Auction Enhancement Features - Phase I

- Seasonal Auction Changes (An important feature of the end state auction engine is that it can simultaneously evaluate bids and offers for TCCs of multiple durations, permitting the NYISO to sell six-month and annual TCCs within the same auction round, and add auctions of TCCs additional durations, without extending the length of the auction).
- Monthly Auction Changes (The ability of the end-state auction to simultaneous sell or reconfigure TCCs of multiple durations would enable the NYISO to expand its monthly auctions to reconfiguration auctions not only covering the next month, but the remainder of the capability period or the remainder of the year).
- Expanding the availability of LTFTRs (per FERC's Order) to LSEs that seek to use non-historic points of injection and withdrawal as well as making LTFTRs available to non-LSEs.



#### Description

	NYISO successfully delivered functionality supporting Offers in Any Round in June.
	<ul> <li>Deliverables: This is a multi-year project to provide for TCC Auction 'End State' functionality to include:</li> <li>Remove restrictions on TCC sales in non-reconfiguration rounds in capability period auctions by providing the opportunity to sell TCCs in any round</li> <li>Implement Multi Duration Capability Period Auctions</li> <li>Balance of period (BOP) TCCs; revised structure of the monthly auctions</li> </ul>
	<b>Status:</b> This project will provide NYISO with improved ability to meet CARIS requirements as outlined in NYISO's Compliance filing, Docket No. OA08-52-000, Section II, 6. & 7. and, Attachment Y of the OATT, Section 15.6 in support of FERC Order 890. This software will support the CARIS voting process. This project was successfully deployed in July. This project is complete.
CARIS Voting Software	<ul> <li>Deliverables: The CARIS voting software needs to automate the process of LSE project voting allowing for tracking results of the planning process for CARIS. Deliverables include:</li> <li>An internal user interface for the NYISO Planning group to allow for customizing the LSE voting list by zone, and with respective weighting share for each CARIS project proposed</li> <li>Ability to determine the vote weight of each LSE based on project criteria</li> <li>Calculate the overall weighted LSE affirmative votes to two decimal places</li> </ul>

## Summary Description of FERC Regulatory Filings, Investigations and Rulemakings and Related Orders in NYISO Matters July 2010

## FERC July Orders

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
12/11/09	NYISO and TO's farther compliance filing of order no. 890 regarding certain descript issues identified in October 15 <sup>th</sup> order which require tariff changes on attachment Y of OATT.	OA08-52-007	07/15/10	FERC order accepting Order No. 890 compliance filing re: evaluation and selection from competing reliability needs solutions and resources	Accepted- Compliance Required
01/12/10	NYISO filing of Additional Report on Broader Regional Market Long-Term Solutions to Lake Erie Loop Flow	ER08-1281-004	07/15/10	FERC order conditionally accepting Lake Erie Loop Flow report and requesting submission of additional information by NYISO and other ISOs	Accepted- Compliance Required
04/16/10	NYISO non-tariff compliance filing for non- historic fixed price TCCs.	ER07-521-009	07/15/10	FERC order accepting implementation plan re: development of tariff provisions and software to enable LSEs to obtain new LTTRs for non- historic POI and POW combinations and directing further compliance filings (due 12/1/10 and 12/1/11) re: implementation schedule for non-historic LTTRs	Accepted- Compliance Required

# FERC July Filings

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
07/02/10	NYISO filing of a protest against the Application of TC Ravenswood LLC to Implement a Minimum Oil Burn Service Cost of Service Recovery Rate Schedule.	ER10-1359-000			
07/06/10	NYISO filing of a Request for Rehearing and Clarification of FERC's June 4, 2010 Order on Compliance Filing regarding proposed "traffic ticket" violations.	ER09-1142-005			
070/7/10	NYISO filing of proposed compliance revisions to the NYISO tariffs (1) to satisfy the directives of a June 4 Order regarding NYISO "traffic ticket" violations and (2) to incorporate NAESB Phase I M&V business practice standards as directed by FERC in Order No. 676-F.	ER09-1142, RM05-15-017, ER10-1722			
07/07/10	NYISO filing of a motion requesting limited waiver of filing deadline or alternative request for one-day extension of time.	ER09-1142-005, ER10-1722			
07/07/10	NYISO filing of a motion for leave to answer and answer to requests filed by EPSA and IPPNY for clarification or, in the alternative, rehearing of FERC's Order on Proposed Application of Mitigation Measures and Compliance Filings issued on May 20, 2010.	ER09-1682-000, ER09-1682-004, ER09-1682-005, ER09-1682-006			
07/14/10	NYISO filing of a supplement to its 7/2/10 protest re: TC	ER10-1359-000			

Filing			Order		
Date	Filing Summary	Docket	Date	Order Summary	Outcome
	Ravenswood filing of a minimum oil burn cost of service recovery rate schedule				
07/21/10	NYISO 205 Filing for BPCG and DAMAP.	ER10-1688-000.			
07/21/10	NYISO Filing Request for Leave to Answer and Answer to the Independent Power Producers of New York.	EL07-39-006, ER08-695-004			
07/22/10	NYISO Errata Filing Regarding Inadvertently Omitted Affidavits of Nicole Bouchez, and Eugene T. Meehan	EL07-39-006, ER08-695-004			
07/23/10	NYISO Errata Filing Regarding Inadvertently Omitted Affidavits of Eugene T. Meehan.	EL07-39-006, ER08-695-004			
7/26/10	NYISO 205 Tariff filing of revisions concerning Real-Time Energy offers (IBRT)	ER10-1977-000			
7/27/10	NYISO Motion for Further Limited Extension of Time and for Shortened Notice and Comment Period and for Expedited Action regarding ICAP Market Mitigation Measures.	EL07-39-004, - 005, ER08-695- 002, -003			
7/29/10	NYISO compliance filing of its Eighth Price Validation Informational Report. Compliant with 7/14/06 FERC Order.	ER06-1014-010			
7/29/10	NYISO 205 filing of proposed revision to its Services Tariff (MST) regarding the Emergency Demand Response Program.	ER10-2045-000			
7/30/10	NYISO 205 Filing to proposes amendments to its MMM that will permit it to implement new reference level software ("RLS")	ER10-2062-000			

Filing Date	Filing Summary	Docket	Order Date	Order Summary	Outcome
	functionality that will enable Market Parties to submit fuel price and fuel type information for their Generators.				
7/30/10	<b>NYISO Errata</b> filing of revisions concerning Real-Time Energy offers (IBRT)	ER10-1977-001			